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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. 3
Construction-Related Remediation Activities
Former Everett Staging Yard
1 Horizon Way, 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 February 1 and August 1, 2017, 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 twice, on November 16, 2016, and February 2, 2017. A third RAM Plan Modification, planned for fall 2017, which will address the placement of clean cover materials and marker layers to achieve a condition of "No Significant Risk" at the Site under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000).

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. Note the RAM Project Area has been modified to show the actual limits and/or anticipated limits of RAM activities for the Site.

This is the third 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 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 BWSC-106 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 Wynn Boston Harbor website (www.wynnbostonharbor.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, and February 2, 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

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

The majority of activities completed during this performance period were associated with the disposal characterization of excavated soils and sediment, additional pre-characterization of soils, sampling for asbestos in soil and sediment, perimeter and work-zone air monitoring, groundwater withdrawal and treatment, coordination with various disposal facilities for the management of Remediation Waste as defined in Section 40.0030 of the MCP, and the off-Site disposal of soils at appropriately permitted disposal facilities. 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:

- Excavation of approximately 50 test pits for additional disposal pre-characterization sampling, delineation sampling, and asbestos in soil sampling;
- Submittal of a second RAM Plan modification to MassDEP on February 2, 2017, which revised the provisions for Site-perimeter and Site-interior air sampling;
- Communications with Mr. John Macauley of MassDEP regarding various Site activities related to the Non-Traditional (NT) Plan (e.g., decommissioning of wheel washes and access roads in the rail load out area, discontinuance of air monitoring at select locations, increases in soil volume of asbestos-impacted soil removed from the Site, etc.);
- Collection and laboratory analyses of over 300 soil and sediment samples for asbestos in soil by Massachusetts-certified laboratories using Polarized Light Microscopy (PLM);
- Treatment of groundwater pumped from excavations, prior to discharge;
- Submittal of a Notice of Intent (NOI) and Remediation General Permit (RGP), following the newly promulgated 2017 RGP requirements, to the Environmental Protection Agency (EPA) and MassDEP on July 6, 2017. The 2017 RGP replaces the RGP that expired on September 9, 2015. EPA approved the NOI/RGP submittal on August 3, 2017, and assigned Authorization # MAG910727. Prior dewatering was performed following requirements contained in the 2015 RGP regulations;
- Collection and analyses of influent and effluent (treated) groundwater samples following the requirements of the RGP;
- Excavation and off-Site disposal of soils from the southeastern portion of the Site that visually contained elemental sulfur, the apparent source of an observed discolored groundwater seep in April 2017. Response actions associated with the discolored seep were discussed with, and approved by, MassDEP and were performed as part of this RAM;
- Continuous perimeter air monitoring via AirLogics stations;
- Earthwork activities associated with the construction/installation of utilities, foundations, mat slab for the garage foundation, subsurface structures (e.g., detention basins, fuel tank installations), three drainage outfalls (outfalls 1 and 2 were included within the excavation area for the eastern load transfer platform, while outfall 3 was a standalone installation on the eastern side of the peninsula), rock anchors, mini-piles, and expanded polystyrene (EPS) foam blocks;
- Earthwork activities along the southern and southeastern shorelines associated with construction of a living shoreline, a rip-rap embankment, and a sheet pile bulkhead and load transfer platform;

- Decommissioning of construction dewatering wells by HUB Foundation Co. of Chelmsford, Massachusetts, by means of pressure grouting the wells in-place;
- Off-Site disposal of approximately 195,000 tons of soils at appropriately permitted In-State and Out-of-State disposal facilities following Bill-of-Lading (BOL), Material Shipping Record (MSR), or Hazardous Waste Manifest procedures;
- Providing MassDEP copies of laboratory reports for asbestos-in-soil testing;
- Maintenance of site erosion controls; and
- Removal of miscellaneous materials (concrete obstructions, wood debris, 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;
- Earthmoving and grading for landscape and open space amenities, including a proposed Harborwalk along the waterfront; and
- Earthwork and dredging to construct significant improvements along the currently 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;
    - 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;

- 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.

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 this RAM Status Report:

- 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; and
- 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.

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 1 Horizon Way 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).

The ground surface at the Site is generally flat with a slight slope toward the southwest, with ground surface elevations ranging from approximately 8 to 13 feet NAVD88. Subsurface conditions generally consist of fill over a variable sequence of naturally deposited organics, sand and gravel, and silty clay over weathered rock and bedrock. Filling over naturally deposited materials occurred in the area of the Site from the late 1800s through the early 1960s. More recent naturally deposited sediments along the shoreline include sand, silt, and organics. Depth to groundwater ranges from approximately 4 to 10 feet.

Access to the Upland Property is limited by the presence of a chain-link fence with two gates: one gate is in the eastern portion of the Site, along Horizon Way. Security personnel control access to the Site at each of the gates.

The Site is abutted to the northeast by a bus maintenance and repair facility operated by the MBTA; to the southeast by properties along Alford Street, including facilities operated by the Boston Water and Sewer Commission (BWSC) and the Massachusetts Water Resources Authority (MWRA); to the southwest by the Mystic River; and to the northwest by railroad tracks for the MBTA Commuter Rail, beyond which are several large retail buildings associated with the Gateway Center.

According to a Massachusetts Geographic Information System (MassGIS) map, the Site is not located in or within 500 feet of a Zone II public water supply, potentially productive aquifer, a Zone A surface water body, an Interim Wellhead

Protection Area, a protected wetlands habitat, or an Area of Critical Environmental Concern. Protected open space associated with Gateway Park is located approximately 400 feet to the northwest of the Site.

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 (also referred to as 22 Chemical Lane in MassDEP's Sites Database) 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 RAO (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.

WATER-SIDE SITE

Historic releases of oil and hazardous material (OHM) at the Site have 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 more recent 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 now part of the construction site. The property at 38-50 Broadway Street is occupied by a vacant lot (location of former Mobil gas station), and a 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 is included in Appendix C. The approximate locations of the former USTs are shown on Figures 2 and 3. Following removal of the USTs, the former Mobil station building was demolished and removed from this parcel in late June/early July 2017; this parcel is now vacant.

The MBTA bus maintenance facility is to the northwest of the property; 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 will be 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 Response Action Outcome (RAO; now referred to as a Permanent Solution Statement) 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 includes 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 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 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 will be implemented at only a portion of this property where the proposed 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 Response Action Outcome 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 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 volatile organic compound 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, Massachusetts Bay Transit Authority (MBTA) railway area to the west, the MBTA service facility to the east, and the service road to the South. A Utility-Related Abatement Measure (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 are currently ongoing. A URAM Completion report is anticipated to be filed with MassDEP in the Fall 2017.

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 will be managed as part of this RAM.

150 ALFORD STREET

This property is situated on the corner of 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 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 will be managed as part of this RAM. This location is being used as a temporary parking lot and material staging area.

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

The first RAM Status Report, dated August 31, 2016, documented construction-related RAM activities completed through August 5, 2016. The second RAM Status Report documented construction-related RAM activities completed through January 31, 2017. This third RAM Status Report documents construction-related RAM activities performed between February 1 and July 31, 2017.

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

The AirLogics perimeter air monitoring system has been monitored daily for PM10 particulates. Additional details concerning AirLogics are presented below.

Erosion and sedimentation controls, including staked straw bales and silt fencing, have been maintained along the top of Coastal Bank in accordance with the Wetlands Protection Act (WPA) Order of Conditions. Best Management Practices (BMPs) are also employed in other constructed areas where water is generated.

Materials Management Areas (MMAs) for the temporary storage of excavated soils have been maintained on the southern peninsula and the eastern portion of the Site. These areas are shown on Figure 3.

Obstructions (concrete and timbers) have been encountered and removed from areas within the construction footprint of the proposed building, along utility corridors, in the Service Road area, and in areas where subsurface structures are being constructed (e.g., vent tunnel). The off-Site disposal of the concrete and timbers is documented in Section (c) below.

As discussed in Section (b) below, approximately 50 test pits were advanced during this reporting period for soil disposal characterization and to collect soil samples for asbestos analyses, and over 300 soil and sediment samples were collected for laboratory analysis of asbestos using PLM methodology. Asbestos in soil testing results were all non-detect (ND).

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

Wheel-wash stations were constructed for vehicles and equipment used in areas of suspect or documented asbestos in soil. As discussed in Section (b) below, certain wheel wash stations associated with asbestos-in-soil (AIS) management activities were decommissioned as they were no longer necessary.

As discussed in Section (b) below, approximately 195,000 tons of soil, sediment, and iron sludge were transported off-Site for disposal at appropriately permitted facilities during the reporting period. Soils were transported following Bill-of-Lading, Material Shipping Record (MSR), and Hazardous Waste Manifest tracking procedures.

Of the 195,000 tons of soil disposed off-Site, approximately 3,865 tons of these soils contained asbestos and required Toxicity Characteristic Leaching Procedure (TCLP) treatment (stabilization) to eliminate toxicity characteristics of certain metals, while approximately 3,710 tons of soils contained asbestos and did not require treatment. These soils were transported for off-Site disposal at Turnkey Landfill in Rochester, New Hampshire and Taylor County Landfill in Mauk, Georgia, following Bill-of-Lading and Asbestos Containing Waste Material (ACWM) Shipping Record tracking procedures.

Of the 195,000 tons of soil disposed off-Site, approximately 2,650 tons had PCB concentrations greater than 50 mg/kg; these soils were transported by railcar for disposal at US Ecology in Belleville, Michigan, a Toxic Substance Control Act (TSCA) permitted facility, following Hazardous Waste Manifest tracking procedures. While the PCB-impacted soils required disposal at a TSCA-permitted facility, these soils were not considered PCB remediation waste based on the Site history, which includes aerial photographs showing all buildings on the Site were razed prior to 1976, so that any releases of PCBs to the Site occurred prior to 1978. Therefore, PCBs at the Site are not associated with a TSCA release.

Of the 195,000 tons of soil disposed off-Site, approximately 84,565 tons of these soils were transported by railcar to either Sunny Farms Landfill in Fostoria, Ohio (approximately 82,710 tons), or Taylor County Landfill in Mauk, Georgia (approximately 1,855 tons), following Bill-of-Lading tracking procedures. The approximately 1,855 tons of soil transported to the Taylor County Landfill also followed ACWM Shipping Record tracking procedures.

Of the 195,000 tons of soil disposed off-Site, approximately 20,050 tons of these soils (both AIS and non AIS) required TCLP treatment (stabilization) to eliminate toxicity characteristics of certain metals prior to transport and disposal at various out-of-State facilities. Soils were transported following BOL tracking procedures.

Approximately 33,800 cubic yards (CY) of geotechnically suitable natural soils were relocated from the Site to the 1 Air Force Road property located approximately one mile north of the Site, and owned by 68 Tremont Street, LLC. Soils relocated to 1 Air Force Road were pre-characterized and had constituent concentrations less than RCS-1 criteria. These soils were transported using MSRs.

As discussed in Section (b) below, approximately 61 CY of ACMs were transported off-Site for disposal at either Minerva Enterprises in Waynesburg, Ohio (approximately 26 CY) or Frank Road Recycling Solutions in Grove City, Ohio (approximately 35 CY). ACM was transported following Massachusetts Non-Hazardous Special Waste Manifests procedures.

GZA prepared and submitted a NOI and RGP to EPA and MassDEP following the newly promulgated 2017 RGP requirements on July 6, 2017. The 2017 RGP replaced the RGP that expired on September 9, 2015. EPA approved the NOI/RGP submittal on August 3, 2017, and assigned Permit # MAG910727. Prior dewatering at the Site was performed following requirements contained in the 2015 RGP regulations.

Asphalt, concrete and/or timbers were sampled, as necessary, for disposal characterization. Asphalt, concrete, and timber piles were transported off-Site and disposed of at appropriately permitted facilities.

Construction-related work performed during this RAM performance period included several activities. The bulk excavation for the below-grade garage for the resort was completed. The mat slab for the garage foundation was completed, and rock anchors were installed for the garage mat slab. Dewatering wells for the garage excavation were shut down and well decommissioning commenced. Floor slabs for the garage were constructed up to ground surface. Work associated with the living shoreline was initiated. The permanent marine sheet-pile bulkhead and load transfer platform were completed.

Drainage outfalls #1 through #3 were completed. Mini-piles were driven for the resort foundation. Pre-cast prestressed concrete piles were installed for both the resort and the precast marine wharf. Fuel storage tanks were installed north of the Central Utility Plant (CUP) portion of the resort. Installation of detention basin #2 was initiated. Excavation and backfilling for pile caps was completed in the convention center area of the resort. Soil excavation was initiated for EPS foam blocks on the southern end of the resort. In general, geotechnically suitable soils were reused to the extent possible; excess soils requiring off-Site disposal had previously been pre-characterized and/or additional pre-characterization soil data was developed to allow off-Site disposal at appropriately permitted facilities.

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 criteria developed by the Massachusetts Department of Labor.

WATER TREATMENT

Groundwater encountered during construction excavations which require dewatering is pumped to the on-Site treatment system for treatment and discharge in accordance with the RGP. As discussed below in Section (b), the groundwater treatment system was modified at various times to address exceedances of certain metals and total cyanide. Corrective actions taken by the system operator included cleaning the system's primary settling tanks, backwashing carbon vessels, implementation of more frequent change-outs of the bag filter units, replacement of the existing cation exchange filter media, and providing additional anion exchange media (for the cyanide). Following corrective actions, RGP discharge limits were generally met. A dewatering sump detail and process flow diagram and a table summarizing influent/effluent testing results during the reporting period are included in Appendix D. Laboratory reports are included in Appendix E.

PERIMETER AIR MONITORING

Perimeter dust monitoring is performed on a continuous basis. The automated perimeter air monitoring system consists of four individual AirLogics SolarLite monitoring stations with associated analytical instrumentation, a meteorological station, a computer control system, and an alarm system linked to the analytical instrumentation by an integrated communication/telemetry package. The meteorological station is used to identify which stations are upwind, downwind, or crosswind of RAM Project Area on a real-time basis.

The analytical instrumentation within each perimeter station consists of a respirable particulate meter for the measurement of dust as a surrogate for polynuclear aromatic hydrocarbons (PAHs) and metals. The photoionization detectors (PIDs), along with the Respirable Particulate Meters, are housed in weather-tight enclosures. The system operates on solar power, and is configured with on-board battery backup. Data collected by the AirLogics system is 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 F.

Additional air monitoring was performed per requirements contained in the NT Plan and, the two RAM Plan modifications, and per discussions with Mr. John Macauley and Mr. Andrew Clark of MassDEP. In addition to AirLogics total dust monitoring, air monitoring during the reporting period included perimeter, 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 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). Please 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 either polyethylene sheeting or a spray-applied encapsulating agent (e.g., Gorilla Snot). Truck wheel washing stations are located near the construction entrance (Horizon Way) and exit (Dexter Street) to mitigate the tracking of materials from the RAM Project Area onto public roadways. 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. Please refer to the NT Plan and two RAM Plan modifications previously filed with MassDEP for additional detail.

PERMITS

As previously cited, an NOI for the RGP was submitted to EPA and MassDEP on July 6, 2017, to address the 2017 RGP requirements, EPA approved the NOI/RGP submittal on August 3, 2017, and assigned Permit # MAG910727.

(b) Any Significant New Site Information or Data

TEST PITS, SAMPLING, AND ANALYSES

During the reporting period, approximately 50 test pits were advanced by the subcontractor, J. Derenzo Company (JDC), using various sized excavators to collect additional pre-characterization samples for disposal characterization and/or to collect soil samples for asbestos analysis. Test pits were performed at locations where samples were collected at depths greater than 3 feet below existing grades. In addition, approximately 100 soil samples were collected from soil stockpiles for disposal characterization purposes. A GZA field engineer monitored the test pits and collected soil samples.

Pre-Characterization Sampling and Analyses

Pre-characterization soil samples and asbestos sample locations are identified in the field by (1) cell coordinates which have been surveyed and marked using global positioning system (GPS) equipment (vertical and lateral controls), or (2) cell designations created within soil stockpiles. Cell dimensions varied to reflect construction excavations for select features or by the size of soil stockpile. Samples collected during the test pitting were typically collected at 3.3-foot intervals with some variation due to subsurface obstructions or to accommodate the depths of various utilities and various subsurface structures. Sample identifications for the pre-characterization samples reflected the location where the sample was collected (e.g., G-K 20 = a select cell, DL = drain line, SP = stockpile, OF = outfall, Fuel Tank = fuel tank installation area, etc.).

Figure 3 shows the Materials Management Areas where soil stockpiles are managed, cell locations, and areas along the shoreline where soil and sediment have been excavated and then stockpiled (in the materials management areas).

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). In addition, delineation samples were collected along the G-K 20 alignment, and between cells within soil

stockpiles, as necessary. The delineation samples were collected for the segregation of soils identified as containing TCLP metals (lead and/or arsenic) that required treatment within the disposal site boundary to reduce leachable metals concentrations for disposal purposes. Samples were submitted to Alpha Analytical of Westborough, Massachusetts, following chain-of-custody protocols. Laboratory data is summarized on Tables 1 through 7. Laboratory data reports are provided in Appendix E.

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 included MCP 14 metals to address RCS-1 facilities in Massachusetts.

Asbestos in Soil Sampling and Analyses

Due to the detection of asbestos in soil associated with demolition debris 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 Needham, Massachusetts and was submitted to MassDEP on November 16, 2016.

Per the RAM Plan modification and NT Plan, soil sampling for asbestos was performed in cells where demolition debris was visible and could potentially contain asbestos. Soil samples were collected at a frequency of one four-point composite sample per 100 cubic yards of soil. With this sampling approach, multiple asbestos 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 306 soil samples (from test pits, from hand auger sampling along the living shoreline, from surface soils, and from stockpiled soils/sediment) were submitted to CEI Labs of Cary, North Carolina, for analysis of asbestos in soil by PLM methodology as discussed with MassDEP. Laboratory testing results for the 306 soil samples were all ND. Laboratory testing results for asbestos are included in Appendix G.

RGP SAMPLING AND TESTING RESULTS

As noted above, the on-Site groundwater treatment system has been modified to address exceedances of copper, iron, and cyanide during effluent sampling. GZA, on behalf of Wynn MA, notified EPA Region 1 when exceedances occurred and identified corrective actions/proposed system upgrades. Following the implementation of these upgrades, RGP discharge limits have been met. RGP testing results are summarized on the table included in Appendix D.

PERIMETER AIR MONITORING DATA

AirLogics

Perimeter dust monitoring has been performed on a continuous basis during this reporting period. 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 $\mu g/m^3$ 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 F. Air emissions were within perimeter action limits during this RAM Status Report performance period. Water trucks to control dust generation continue to be consistently used 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 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 Phase Contrast Microscopy (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. One work zone sample and one interior site monitoring sample result exceeded the screening action level; however, subsequent follow-up testing using Transmission Electron Microscopy (TEM) laboratory methodology did not identify the presence of asbestos fibers in either sample. 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.

Excavated soil containing asbestos was stockpiled at the Material Management Areas (refer to Figure 3). Stockpiles were covered with Gorilla Snot™ for dust control.

Equipment and vehicles that contact asbestos-impacted soil were decontaminated using a “wheel wash” prior to moving onto public streets. Wastewater from the decontamination facilities was processed through 5-micron filter bags and then directed through the on-Site treatment system. Used 5-micron filtration bags were disposed of as asbestos-containing material.

In addition, third-party monitoring and clearance monitoring was performed by Massachusetts-licensed asbestos monitors from LBP Solutions, LLC (LBP), of Foxboro, Massachusetts, for the following activities:

- Decommissioning of the Dexter Street and Horizon Way wheel-washes in February 2017, including the removal of 6 inches of soil underlying the wheel washes;
- Decontamination of 10 lengths of rail-spur and removal of approximately 6 inches of soil from the corresponding exclusion zone in March 2017;
- Excavation and removal of asbestos-impacted asphalt road materials and an additional 3 inches of soil initially installed for loading of rail-cars; and
- AIS stockpile areas and truck load out areas.

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 JDC, performed the asbestos abatement, and coordinated off-Site disposal of the abated asbestos materials. These decommissioning activities were communicated to Mr. John Macauley of MassDEP prior to implementation.

TRADITIONAL ASBESTOS ABATEMENT

During excavation work by JDC, asbestos-containing transite pipe and piping wrapped in asbestos insulation and asbestos-containing mastic were encountered at three locations during the reporting period; in February (approximately 35 CY of non-friable materials) and in March and April 2017 (approximately 26 CY of non-friable materials). In accordance with

MassDEP notification requirements in 310 CMR 7.15 and Department of Labor Standards (DLS) notification requirements contained in 453 CMR 6.12, online Asbestos Notification Forms (ANF-001) were filed as necessary. NewRoads, contracted by JDC, performed the asbestos abatement and coordinated off-Site disposal of the abated asbestos materials. Massachusetts-licensed asbestos monitors from LBP provided third-party monitoring and clearance responsibilities during abatement activities.

DISCOLORED SEEP AND SOIL EXCAVATION

A discolored seep of water was observed by GZA in late April 2017 following excavation activities to install the coir rock roll component of the living shoreline improvements on the southeastern shoreline. The water was yellowish in color at the seep location but changed to green to gray to black over time. The seep was observed to appear at high tide and then diminish at low tide, indicating the seep appeared to be influenced by tidal fluctuations. The seep was contained in a shallow trench between the installed coir rock roll and the location where the seep was observed breaking through the bank. Following a review of this occurrence with Wynn MA and its contractor, a silty clay soil berm was constructed to prevent the seep from directly entering the nearby surface water.

On April 25, 2017, GZA collected a sample of the seep for laboratory testing. Samples were collected in appropriate laboratory-provided containers (preserved as necessary) for the following analyses: SVOCs by EPA method 8270, total metals (arsenic, cadmium, iron, lead, manganese, and vanadium), and dissolved organic carbon, total carbon, and sulfur.

The laboratory test results for SVOCs were reported below detection limits. Reported metals concentrations were arsenic at 149 ug/L, iron at 836 ug/L, lead at 15.3 ug/L, manganese at 1,430 ug/L, and vanadium at 22.2 ug/L. Cadmium was reported as below detection limits. Sulfur was reported at 2,110 mg/L. Dissolved organic carbon and total organic carbon were reported at 22.1 mg/L and 21.2 mg/L, respectively. Based on the analytical data, it was GZA's opinion that the colors in the seep were due to the presence of sulfur, with the different colors reflecting both concentration and oxidation state.

GZA performed a preliminary risk assessment for construction workers who may come into contact with the seep water and for nearby ecological receptors. GZA's risk screening indicated that construction workers without personal protection equipment (PPE) could be exposed to the seep water for up to two 8-hour days per week, or four 4-hour days per week, without Significant Risk. The use of appropriate PPE would reduce dermal contact and extend the acceptable exposure frequency. Using assumptions for dilution factors and the water quality of the tidally influenced ecological receptor (Mystic River), GZA concluded that there was likely no significant risk to ecological receptors. GZA collected additional surface water samples on May 8, 2017, which confirmed the preliminary risk assessment conclusions for construction workers and ecological receptors. Testing results are summarized on Table 8.

As discussed with MassDEP, approximately 120 cubic yards (CY) of soil containing visible amounts of elemental sulfur was excavated and stockpiled in Marine Stockpile #10. The resulting excavation was backfilled with soil and control-density fill (CDF) mixed with bentonite. Following backfilling with the bentonite/CDF mix, no additional discolored seepage was observed.

(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 195,000 tons of impacted materials (soil, sediment, iron sludge) were removed from the RAM Project Area and transported to the various disposal facilities outlined below. A breakdown of the approximate total soil volumes received per facility is presented below.

- Approximately 32,045 tons of soil to Massachusetts Unlined Landfills (Fall River, Clinton, and Hopedale Landfills) under BOLs;

- Approximately 11,765 tons of soil to Massachusetts Lined Landfills (Taunton, Middleborough, and Fitchburg Landfills) under BOLs;

- Approximately 18,995 tons of below RCS-1 soil to the Green Acres Soil Reclamation Facility in Uxbridge, Massachusetts, under a Material Shipping Record (MSR);

- Approximately 27,390 tons of soil to Turnkey Landfill (TREE) in Rochester, New Hampshire (RCRA D Facility) under BOLs;
    - Approximately 10,065 tons as Cover; and
    - Approximately 17,325 tons as Disposal.

- Approximately 5,720 tons of asbestos-impacted soil to TREE in Rochester, New Hampshire (RCRA D Facility) under BOLs and Asbestos Shipping Records;

    - Approximately 3,710 tons non-treated; and
    - Approximately 2,010 tons required treatment (stabilization) to eliminate toxicity characteristic of lead prior to transport and disposal.

- Approximately 11,255 tons of soil tons requiring treatment (stabilization) to eliminate toxicity characteristic of lead prior to transport and disposal at TREE in Rochester, New Hampshire (RCRA D Facility) under BOLs;

- Approximately 615 tons of iron sludge materials to Crossroads Landfill in Norridgewock, Maine under a BOL;

- Approximately 82,710 tons of soils to Sunny Farms Landfill in Fostoria, Ohio (by railcar; a RCRA D Facility) under a BOL;

    - Approximately 4,918 tons required treatment (stabilization) to eliminate toxicity characteristic of lead and/or arsenic prior to transport and disposal; and
    - Approximately 77,791 tons did not require treatment.

- Approximately 1,855 tons of soil containing <1% asbestos to Taylor County Landfill in Mauk, Georgia (by railcar; a RCRA D Facility) under a BOL and Asbestos Shipping Record. This soil also required treatment (stabilization) to eliminate the toxicity characteristic of lead and/or arsenic prior to transport and disposal;

- Approximately 2,650 tons of PCB-impacted soil by railcar to US Ecology in Belleville, Michigan (a TSCA Facility) under a Hazardous Waste Manifest;

- Approximately 26 CY of non-friable ACMs were transported off-Site for disposal at Minerva Enterprises in Waynesburg, Ohio, and approximately 35 CY of non-friable ACMs were transported off-Site for disposal at Frank Road Recycling Solutions in Grove City, Ohio. ACM was transported following Massachusetts Non-Hazardous Special Waste Manifest procedures; and

- Refer to Appendix C for information on remediation waste generated during the UST removals at 38 Broadway.

BOL attestations are currently being prepared by GZA. BOLs, Asbestos Shipping Records, and Hazardous Waste Manifest tracking documents will be provided to MassDEP as separate submittals.

Groundwater generated during construction dewatering is treated by an onsite treatment system, as described above, and discharged to the cove on the southeastern portion of the Site.

Effluent from the treatment system is being sampled at a frequency to comply with the recently issued RGP permit.

(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.

Due to file size of this RAM Status Report and eDEP file size limitations for electronic submittals, Appendices E and G have been submitted separately using the BWSC126 Miscellaneous Document Transmittal Form.

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

Sincerely,
GZA GEOENVIRONMENTAL, INC.

Neal Carey
Senior Manager

Matthew M. Smith
Consultant Reviewer

Lawrence Feldman, LSP
Senior Principal

Attachments:
Table 1 – Main Site and Utilities Stockpile Soil Analytical Results
Table 2 – Main Site and Utilities Stockpile Delineation Results
Table 3 – Precharacterization Cell Soil Analytical Results
Table 4 – Precharacterization Grid Companion Cell Results
Table 5 – Marine Stockpile Soil Analytical Results
Table 6 – Marine Stockpile Delineation Results
Table 7 – Lagoon Sludge Analytical Results
Table 8 - Wynn Shoreline Water Analytical 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 – UST Removal Documentation (38 Broadway)
Appendix D - Dewatering Documentation
Appendix E - Laboratory Reports (submitted separately using BWSC126)
Appendix F - AirLogics Weekly Reports
Appendix G - Asbestos Laboratory Reports (submitted separately using BWSC126)

Tables

TABLE 1
MAIN SITE AND UTILTIES STOCKPIL SOIL ANALTICAL RESULTS
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID Laboratory Work Order Sampling Date	HWAY_WM_S1 L1704149/L1704506 2/8/2017	MBTA_WM_S1 L1704149 2/8/2017	MBTA_WM_S2 L1704149/L1704506 2/8/2017	MBTA WEST WM STOCKPILE S2 L1707345/L1707679 3/9/2017	MBTA WEST WM STOCKPILE S1 L1707345/L1707679 3/9/2017	UTILITY SPOILS STOCKPILE (NORTH) L1718412/L1719010 6/5/2017	UTILITY SPOILS STOCKPILE (SOUTH) L1718412/L1719010 6/5/2017	ELECTRIC VAULT L1725185/L1725632 7/21/2017
Total Metals	**Units**								
Antimony	mg/kg	18	< 2.5	< 2.3	3.3	< 2.2	< 2.55	35.3	34.2
Arsenic	mg/kg	180	14	15	30	6.7	62.8	122	417
Barium	mg/kg	120	170	68	52	75	67.7	130	83.1
Beryllium	mg/kg	0.33	0.67	0.44	0.43	0.42	0.265	0.381	< 0.230
Cadmium	mg/kg	3.2	1.1	< 0.46	< 0.46	< 0.44	12.1	7.56	6.23
Chromium	mg/kg	18	30	8.9	11	20	14.8	18.8	10.8
Lead	mg/kg	930	57	170	140	290	250	674	2570
Mercury	mg/kg	0.956	0.258	0.358	0.583	0.174	0.574	2.42	7.75
Nickel	mg/kg	19	21	11	11	16	10.7	15	8.48
Selenium	mg/kg	5	< 2.5	< 2.3	< 2.3	< 2.2	4.03	3.69	37.3
Silver	mg/kg	5.5	< 0.49	< 0.46	< 0.46	< 0.44	4.42	3.61	3.71
Thallium	mg/kg	< 2.5	< 2.5	< 2.3	< 2.3	< 2.2	< 2.55	< 2.44	3.97
Vanadium	mg/kg	37	37	14	23	23	18	26.6	16.2
Zinc	mg/kg	1300	500	100	85	160	4860	3760	1510
Metals by Toxicity Characteristic Leaching Procedure (TCLP)									
Arsenic, TCLP	mg/l	< 1.0	--	--	--	--	--	< 1.0	< 1.00
Lead, TCLP	mg/l	< 0.50	--	< 0.50	< 0.50	7.2	< 0.50	9.75	10.3
Mercury, TCLP	mg/l	--	--	--	--	--	--	--	< 0.0010
Selenium, TCLP	mg/l	--	--	--	--	--	--	--	< 0.500
Herbicides									
2,4,5-T	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
2,4,5-TP (Silvex)	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
2,4-D	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
2,4-DB	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
Dalapon	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
Dicamba	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
Dichlorprop	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
Dinoseb	mg/kg	<0.043	<0.041	<0.039	<0.039	<0.038	<2.2	<0.04	<0.038
MCPA	mg/kg	<4.3	<4.1	<3.9	<3.9	<3.8	<220	<4	<3.8
MCPP	mg/kg	<4.3	<4.1	<3.9	<3.9	<3.8	<220	<4	<3.8
Total Herbicides	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides									
4,4'-DDD	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
4,4'-DDE	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
4,4'-DDT	mg/kg	<0.0192	<0.0187	<0.0172	<0.0174	<0.0169	<0.0196	<0.0178	<0.017
Aldrin	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
alpha-BHC	mg/kg	<0.00427	<0.00416	<0.00382	<0.00386	<0.00375	<0.00435	<0.00395	<0.00378
beta-BHC	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
Chlordane	mg/kg	<0.0833	<0.0812	<0.0744	<0.0752	<0.0731	<0.0849	<0.077	<0.0738
delta-BHC	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
Dieldrin	mg/kg	<0.00641	<0.00625	<0.00572	<0.00579	<0.00562	<0.00653	<0.00592	<0.00568
Endosulfan I	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
Endosulfan II	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
Endosulfan sulfate	mg/kg	<0.00427	<0.00416	<0.00382	<0.00386	<0.00375	<0.00435	<0.00395	<0.00378
Endrin	mg/kg	<0.00427	<0.00416	<0.00382	<0.00386	<0.00375	<0.00435	<0.00395	<0.00378
Endrin ketone	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
Heptachlor	mg/kg	<0.00513	<0.005	<0.00458	<0.00463	<0.0045	<0.00522	<0.00474	<0.00454
Heptachlor epoxide	mg/kg	<0.0192	<0.0187	<0.0172	<0.0174	<0.0169	<0.0196	<0.0178	<0.017
Hexachlorobenzene	mg/kg	<0.0102	<0.00999	<0.00916	<0.00926	<0.009	<0.0104	<0.00947	<0.00908
Lindane	mg/kg	<0.00342	<0.00333	<0.00305	<0.00309	<0.003	<0.00348	<0.00316	<0.00303
Methoxychlor	mg/kg	<0.0192	<0.0187	<0.0172	<0.0174	<0.0169	<0.0196	<0.0178	<0.017
Toxaphene	mg/kg	<0.192	<0.187	<0.172	<0.174	<0.169	<0.196	<0.178	<0.17
Total Pesticides	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls									
Aroclor 1016	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	<0.0415	<0.0393	<0.0375
Aroclor 1221	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	<0.0415	<0.0393	<0.0375
Aroclor 1232	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	<0.0415	<0.0393	<0.0375
Aroclor 1242	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	<0.0415	<0.0393	<0.0375
Aroclor 1248	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	<0.0415	<0.0393	<0.0375
Aroclor 1254	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	0.0802	0.0893	0.0392
Aroclor 1260	mg/kg	<0.0427	<0.04	<0.038	<0.0385	1.74	0.0494	<0.0393	<0.0375
Aroclor 1262	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	<0.0415	<0.0393	<0.0375

TABLE 1
MAIN SITE AND UTILTIES STOCKPIL SOIL ANALTICAL RESULTS
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID Laboratory Work Order Sampling Date	HWAY_WM_S1 L1704149/L1704506 2/8/2017	MBTA_WM_S1 L1704149 2/8/2017	MBTA_WM_S2 L1704149/L1704506 2/8/2017	MBTA WEST WM STOCKPILE S2 L1707345/L1707679 3/9/2017	MBTA WEST WM STOCKPILE S1 L1707345/L1707679 3/9/2017	UTILITY SPOILS STOCKPILE (NORTH) L1718412/L1719010 6/5/2017	UTILITY SPOILS STOCKPILE (SOUTH) L1718412/L1719010 6/5/2017	ELECTRIC VAULT L1725185/L1725632 7/21/2017
Aroclor 1268	mg/kg	<0.0427	<0.04	<0.038	<0.0385	<0.185	<0.0415	<0.0393	<0.0375
Total PCBs	mg/kg	ND	ND	ND	ND	1.74	0.1296	0.0893	0.0392
Total Petroleum Hydrocarbons	mg/kg	181	48.9	107	65.7	403	201	383	238
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
1,1,1-Trichloroethane	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
1,1,2,2-Tetrachloroethane	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
1,1,2-Trichloroethane	mg/kg	<0.0011	<0.00093	<0.0011	<0.00071	<0.00092	<0.001	<0.00089	<0.0014
1,1-Dichloroethane	mg/kg	<0.0011	<0.00093	<0.0011	<0.00071	<0.00092	<0.001	<0.00089	<0.0014
1,1-Dichloroethene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
1,1-Dichloropropene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2,3-Trichlorobenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2,3-Trichloropropane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2,4-Trichlorobenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2,4-Trimethylbenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2-Dibromo-3-chloropropane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2-Dibromoethane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2-Dichlorobenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,2-Dichloroethane	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
1,2-Dichloropropane	mg/kg	<0.0026	<0.0022	<0.0027	<0.0017	<0.0021	<0.0024	<0.0021	<0.0032
1,3,5-Trimethylbenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,3-Dichlorobenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,3-Dichloropropane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,4-Dichlorobenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
1,4-Dioxane	mg/kg	<0.03	<0.025	<0.03	<0.019	<0.024	<0.027	<0.024	<0.036
2,2-Dichloropropane	mg/kg	<0.0038	<0.0031	<0.0038	<0.0024	<0.0031	<0.0034	<0.003	<0.0045
2-Butanone	mg/kg	<0.0075	<0.0062	<0.0076	<0.0048	<0.0061	<0.0068	<0.0059	<0.0091
2-Hexanone	mg/kg	<0.0075	<0.0062	<0.0076	<0.0048	<0.0061	<0.0068	<0.0059	<0.0091
4-Methyl-2-pentanone	mg/kg	<0.0075	<0.0062	<0.0076	<0.0048	<0.0061	<0.0068	<0.0059	<0.0091
Acetone	mg/kg	<0.027	<0.022	<0.027	<0.017	<0.022	<0.024	<0.021	0.035
Benzene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Bromobenzene	mg/kg	<0.0038	<0.0031	<0.0038	<0.0024	<0.0031	<0.0034	<0.003	<0.0045
Bromochloromethane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Bromodichloromethane	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Bromoform	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Bromomethane	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
Carbon disulfide	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	0.0056	<0.0024	<0.0036
Carbon tetrachloride	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Chlorobenzene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Chloroethane	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
Chloroform	mg/kg	<0.0011	<0.00093	<0.0011	<0.00071	<0.00092	<0.001	<0.00089	<0.0014
Chloromethane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
cis-1,2-Dichloroethene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
cis-1,3-Dichloropropene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Dibromochloromethane	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Dibromomethane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Dichlorodifluoromethane	mg/kg	<0.0075	<0.0062	<0.0076	<0.0048	<0.0061	<0.0068	<0.0059	<0.0091
Diethyl ether	mg/kg	<0.0038	<0.0031	<0.0038	<0.0024	<0.0031	<0.0034	<0.003	<0.0045
Di-isopropyl ether	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Ethyl tertiary-butyl ether	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Ethylbenzene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Hexachlorobutadiene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Isopropylbenzene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Methyl tert-butyl ether	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
Methylene chloride	mg/kg	<0.0075	<0.0062	<0.0076	<0.0048	<0.0061	<0.0068	<0.0059	<0.0091
Naphthalene	mg/kg	<0.003	<0.0025	<0.003	0.0022	<0.0024	<0.0027	<0.0024	<0.0036
n-Butylbenzene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
n-Propylbenzene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
o-Chlorotoluene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
o-Xylene	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
p/m-Xylenes	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
p-Chlorotoluene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
p-Isopropyltoluene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
sec-Butylbenzene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091

TABLE 1
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Wynn Boston Harbor
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Everett, Massachusetts

Analyte	Sample ID Laboratory Work Order Sampling Date	HWAY_WM_S1 L1704149/L1704506 2/8/2017	MBTA_WM_S1 L1704149 2/8/2017	MBTA_WM_S2 L1704149/L1704506 2/8/2017	MBTA WEST WM STOCKPILE S2 L1707345/L1707679 3/9/2017	MBTA WEST WM STOCKPILE S1 L1707345/L1707679 3/9/2017	UTILITY SPOILS STOCKPILE (NORTH) L1718412/L1719010 6/5/2017	UTILITY SPOILS STOCKPILE (SOUTH) L1718412/L1719010 6/5/2017	ELECTRIC VAULT L1725185/L1725632 7/21/2017
Styrene	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
Tert-amyl methyl ether	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Tert-Butylbenzene	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Tetrachloroethene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Tetrahydrofuran	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	<0.0027	<0.0024	<0.0036
Toluene	mg/kg	<0.0011	<0.00093	<0.0011	<0.00071	<0.00092	<0.001	<0.00089	<0.0014
trans-1,2-Dichloroethene	mg/kg	<0.0011	<0.00093	<0.0011	<0.00071	<0.00092	<0.001	<0.00089	<0.0014
trans-1,3-Dichloropropene	mg/kg	<0.00075	<0.00062	<0.00076	<0.00048	<0.00061	<0.00068	<0.00059	<0.00091
Trichloroethene	mg/kg	<0.00075	0.00063	<0.00076	0.0012	<0.00061	<0.00068	<0.00059	<0.00091
Trichlorofluoromethane	mg/kg	<0.003	<0.0025	<0.003	<0.0019	<0.0024	0.0028	<0.0024	<0.0036
Vinyl chloride	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
Xylenes, Total	mg/kg	<0.0015	<0.0012	<0.0015	<0.00095	<0.0012	<0.0014	<0.0012	<0.0018
Total VOCs	mg/kg	ND	0.00063	ND	0.0034	ND	0.0084	ND	0.035
Semi-Volatile Organic Compounds									
1,2,4-Trichlorobenzene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
1,2-Dichlorobenzene	mg/kg	<0.22	<0.2	<0.19	<0.2	0.24	<0.22	<0.2	<0.19
1,3-Dichlorobenzene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
1,4-Dichlorobenzene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2,4,5-Trichlorophenol	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2,4,6-Trichlorophenol	mg/kg	<0.13	<0.12	<0.12	<0.12	<0.11	<0.13	<0.12	<0.11
2,4-Dichlorophenol	mg/kg	<0.19	<0.18	<0.17	<0.18	<0.17	<0.19	<0.18	<0.17
2,4-Dimethylphenol	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2,4-Dinitrophenol	mg/kg	<1	<0.98	<0.93	<0.94	<0.91	<1	<0.97	<0.91
2,4-Dinitrotoluene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2,6-Dinitrotoluene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2-Chloronaphthalene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2-Chlorophenol	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2-Methylnaphthalene	mg/kg	<0.26	<0.24	0.27	<0.23	<0.23	<0.26	<0.24	<0.23
2-Methylphenol	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
2-Nitrophenol	mg/kg	<0.47	<0.44	<0.42	<0.42	<0.41	<0.47	<0.44	<0.41
3,3'-Dichlorobenzidine	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
3-Methylphenol/4-Methylphenol	mg/kg	<0.31	<0.29	<0.28	<0.28	<0.27	<0.31	<0.29	<0.27
4-Bromophenyl phenyl ether	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
4-Chloroaniline	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
4-Nitrophenol	mg/kg	<0.3	<0.28	<0.27	<0.27	<0.26	<0.3	<0.28	<0.27
Acenaphthene	mg/kg	0.4	<0.16	1.6	<0.16	<0.15	<0.17	<0.16	<0.15
Acenaphthylene	mg/kg	0.72	<0.16	<0.16	<0.16	<0.15	<0.17	<0.16	<0.15
Acetophenone	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Aniline	mg/kg	<0.26	<0.24	<0.23	<0.23	<0.23	<0.26	<0.24	<0.23
Anthracene	mg/kg	1.8	<0.12	1.6	0.24	0.28	<0.13	0.12	0.19
Azobenzene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Benzo(a)anthracene	mg/kg	4.8	0.43	3.8	0.7	0.82	0.24	0.31	0.35
Benzo(a)pyrene	mg/kg	3.6	0.39	3.5	0.67	0.65	0.2	0.24	0.32
Benzo(b)fluoranthene	mg/kg	5.4	0.5	3.8	0.85	0.99	0.26	0.41	0.41
Benzo(ghi)perylene	mg/kg	2	0.22	2.1	0.34	0.39	<0.17	0.17	0.22
Benzo(k)fluoranthene	mg/kg	1.7	0.16	1.2	0.32	0.31	<0.13	0.13	0.14
Bis(2-chloroethoxy)methane	mg/kg	<0.23	<0.22	<0.21	<0.21	<0.2	<0.23	<0.22	<0.2
Bis(2-chloroethyl)ether	mg/kg	<0.19	<0.18	<0.17	<0.18	<0.17	<0.19	<0.18	<0.17
Bis(2-chloroisopropyl)ether	mg/kg	<0.26	<0.24	<0.23	<0.23	<0.23	<0.26	<0.24	<0.23
Bis(2-ethylhexyl)phthalate	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Butyl benzyl phthalate	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Chrysene	mg/kg	4.8	0.42	4.4	0.69	0.84	0.24	0.35	0.34
Dibenzo(a,h)anthracene	mg/kg	0.67	<0.12	0.49	<0.12	0.11	<0.13	<0.12	<0.11
Dibenzofuran	mg/kg	0.46	<0.2	0.2	<0.2	<0.19	<0.22	<0.2	<0.19
Diethyl phthalate	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Dimethylphthalate	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Di-n-butylphthalate	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Di-n-octyl phthalate	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Fluoranthene	mg/kg	12	0.74	11	1.3	1.5	0.5	0.57	0.79
Fluorene	mg/kg	0.52	<0.2	1.2	<0.2	<0.19	<0.22	<0.2	<0.19
Hexachlorobenzene	mg/kg	<0.13	<0.12	<0.12	<0.12	<0.11	<0.13	<0.12	<0.11
Hexachlorobutadiene	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Hexachloroethane	mg/kg	<0.17	<0.16	<0.16	<0.16	<0.15	<0.17	<0.16	<0.15
Indeno(1,2,3-cd)pyrene	mg/kg	2.4	0.24	1.9	0.39	0.4	<0.17	0.18	0.23

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Analyte	Sample ID Laboratory Work Order Sampling Date	HWAY_WM_S1 L1704149/L1704506 2/8/2017	MBTA_WM_S1 L1704149 2/8/2017	MBTA_WM_S2 L1704149/L1704506 2/8/2017	MBTA WEST WM STOCKPILE S2 L1707345/L1707679 3/9/2017	MBTA WEST WM STOCKPILE S1 L1707345/L1707679 3/9/2017	UTILITY SPOILS STOCKPILE (NORTH) L1718412/L1719010 6/5/2017	UTILITY SPOILS STOCKPILE (SOUTH) L1718412/L1719010 6/5/2017	ELECTRIC VAULT L1725185/L1725632 7/21/2017
Isophorone	mg/kg	<0.19	<0.18	<0.17	<0.18	<0.17	<0.19	<0.18	<0.17
Naphthalene	mg/kg	0.94	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Nitrobenzene	mg/kg	<0.19	<0.18	<0.17	<0.18	<0.17	<0.19	<0.18	<0.17
Pentachlorophenol	mg/kg	<0.43	<0.41	<0.39	<0.39	<0.38	<0.43	<0.4	<0.38
Phenanthrene	mg/kg	6.3	0.29	15	0.87	0.88	0.34	0.4	0.59
Phenol	mg/kg	<0.22	<0.2	<0.19	<0.2	<0.19	<0.22	<0.2	<0.19
Pyrene	mg/kg	10	0.68	14	1.2	1.4	0.43	0.48	0.68
Pyridine	mg/kg	<0.23	<0.22	<0.21	<0.21	<0.2	<0.23	<0.22	<0.2
Total SVOCs	mg/kg	58.51	4.07	66.06	7.57	8.81	2.21	3.36	4.26
Classic Chemistry									
Corrosivity (pH)	SU	6.2	6.8	8.3	7.2	8	7.3	5.4	7.4
Conductivity	umhos/cm	490	170	44	310	81	560	730	620
Flashpoint	deg f	>150	>150	>150	>150	>150	>150	>150	>150
Ignitability	none	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
Reactive Cyanide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Reactive Sulfide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
1. Samples in which detected concentrations of a 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.

TABLE 2
MAIN SITE UTITLITIES STOCKPILE DELINEATION
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	FUEL TANK SB1, SB3, SB4 (NORTH)	FUEL TANK SB1, SB3, SB4 (SOUTH)	FUEL TANK DELINEATION	UTILITY SPOIL SP TCLP	FUEL TANK SUPPLEMENTAL WEST	FUEL TANK SUPPLEMENTAL EAST	UTILITY STOCKPILE SUPPLEMENTAL WEST	UTILITY STOCKPILE SUPPLEMENTAL EAST
	Laboratory Work Order	**L1719073**	**L1719073**	**L1720089**	**L1719640**	**L1721771**	**L1721771**	**L1721771**	**L1721771**
	Sampling Date	**6/8/2017**	**6/8/2017**	**6/12/2017**	**6/13/2017**	**6/27/2017**	**6/27/2017**	**6/27/2017**	**6/27/2017**
Metals by Toxicity Characteristic Leaching Procedure (TCLP)									
Lead, TCLP	mg/l	65.9	1.25	1.84	3.26	1.62	0.83	< 0.500	1.79

Notes:
1. "<" indicates not detected above the laboratory reporting limit shown to the right

TABLE 3
PRECHARACTIZATION CELL SOIL AND ALNALYTICAL RESULTS
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Depth Interval (ft.) Sampling Date	DL-1 DL_1 L1716611/L1715945 5/16/2017	DL-2 DL_2 L1715945 5/16/2017	DL-3 DL_3 L1715945 5/16/2017	DL-4 DL_4 L1716611/L1715945 5/16/2017
Total Metals	**Units**				
Antimony	mg/kg	< 4.08	< 4.47	< 2.13	8.44
Arsenic	mg/kg	176	23.8	6.1	128
Barium	mg/kg	126	28.8	17.6	102
Beryllium	mg/kg	< 0.408	0.464	< 0.213	0.547
Cadmium	mg/kg	41.6	< 0.893	< 0.426	4.1
Chromium	mg/kg	21.7	19.8	7.93	21.2
Lead	mg/kg	1560	78.2	42.3	1620
Mercury	mg/kg	0.887	0.962	0.302	8.22
Nickel	mg/kg	15.7	13.7	4.22	22.7
Selenium	mg/kg	6.19	< 4.47	< 2.13	6.31
Silver	mg/kg	14.2	< 0.893	< 0.426	4.02
Thallium	mg/kg	< 4.08	< 4.47	< 2.13	3.88
Vanadium	mg/kg	12.9	25.5	5.69	31
Zinc	mg/kg	13200	603	126	1150
Metals by Toxicity Characteristic Leaching Procedure (TCLP)					
Arsenic, TCLP	mg/l	< 1.00	--	--	< 1.00
Cadmium, TCLP	mg/l	< 0.100	--	--	--
Lead, TCLP	mg/l	1.37	--	--	7.68
Mercury, TCLP	mg/l	--	--	--	< 0.0010
Herbicides					
2,4,5-T	mg/kg	<0.07	<0.078	<0.036	<0.041
2,4,5-TP (Silvex)	mg/kg	<0.07	<0.078	<0.036	<0.041
2,4-D	mg/kg	<0.07	<0.078	<0.036	<0.041
2,4-DB	mg/kg	<0.07	<0.078	<0.036	<0.041
Dalapon	mg/kg	<0.07	<0.078	<0.036	<0.041
Dicamba	mg/kg	<0.07	<0.078	<0.036	<0.041
Dichlorprop	mg/kg	<0.07	<0.078	<0.036	<0.041
Dinoseb	mg/kg	<0.07	<0.078	<0.036	<0.041
MCPA	mg/kg	<7	<7.8	<3.6	<4.1
MCPP	mg/kg	<7	<7.8	<3.6	<4.1
Total Herbicides	mg/kg	ND	ND	ND	ND
Pesticides					
4,4'-DDD	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
4,4'-DDE	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
4,4'-DDT	mg/kg	<0.0306	<0.0346	<0.0157	<0.018
Aldrin	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
alpha-BHC	mg/kg	<0.00681	<0.0077	<0.00349	<0.004
beta-BHC	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
Chlordane	mg/kg	<0.133	<0.15	<0.068	<0.078
delta-BHC	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
Dieldrin	mg/kg	<0.0102	<0.0116	<0.00523	<0.006
Endosulfan I	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
Endosulfan II	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
Endosulfan sulfate	mg/kg	<0.00681	<0.0077	<0.00349	<0.004
Endrin	mg/kg	<0.00681	<0.0077	<0.00349	<0.004
Endrin ketone	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
Heptachlor	mg/kg	<0.00817	<0.00924	<0.00418	<0.0048
Heptachlor epoxide	mg/kg	<0.0306	<0.0346	<0.0157	<0.018
Hexachlorobenzene	mg/kg	<0.0163	<0.0185	<0.00837	<0.0096
Lindane	mg/kg	<0.00545	<0.00616	<0.00279	<0.0032
Methoxychlor	mg/kg	<0.0306	<0.0346	<0.0157	<0.018
Toxaphene	mg/kg	<0.306	<0.346	<0.157	<0.18
Total Pesticides	mg/kg	ND	ND	ND	ND
Polychlorinated Biphenyls					
Aroclor 1016	mg/kg	<0.068	<0.0761	<0.0349	<0.0398
Aroclor 1221	mg/kg	<0.068	<0.0761	<0.0349	<0.0398
Aroclor 1232	mg/kg	<0.068	<0.0761	<0.0349	<0.0398
Aroclor 1242	mg/kg	<0.068	<0.0761	<0.0349	<0.0398
Aroclor 1248	mg/kg	<0.068	<0.0761	<0.0349	0.537
Aroclor 1254	mg/kg	<0.068	<0.0761	0.127	0.277
Aroclor 1260	mg/kg	<0.068	<0.0761	<0.0349	0.0553

TABLE 3
PRECHARACTIZATION CELL SOIL AND ALNALYTICAL RESULTS
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Depth Interval (ft.) Sampling Date	DL-1 DL_1 L1716611/L1715945 5/16/2017	DL-2 DL_2 L1715945 5/16/2017	DL-3 DL_3 L1715945 5/16/2017	DL-4 DL_4 L1716611/L1715945 5/16/2017
Aroclor 1262	mg/kg	<0.068	<0.0761	<0.0349	<0.0398
Aroclor 1268	mg/kg	<0.068	<0.0761	<0.0349	<0.0398
Total PCBs	mg/kg	ND	ND	0.127	0.8693
Total Petroleum Hydrocarbons	mg/kg	338	188	<36.1	73
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
1,1,1-Trichloroethane	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
1,1,2,2-Tetrachloroethane	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
1,1,2-Trichloroethane	mg/kg	<0.0026	<0.0027	<0.001	<0.0012
1,1-Dichloroethane	mg/kg	<0.0026	<0.0027	<0.001	<0.0012
1,1-Dichloroethene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
1,1-Dichloropropene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2,3-Trichlorobenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2,3-Trichloropropane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2,4-Trichlorobenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2,4-Trimethylbenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2-Dibromo-3-chloropropane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2-Dibromoethane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2-Dichlorobenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,2-Dichloroethane	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
1,2-Dichloropropane	mg/kg	<0.006	<0.0062	<0.0024	<0.0027
1,3,5-Trimethylbenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,3-Dichlorobenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,3-Dichloropropane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,4-Dichlorobenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
1,4-Dioxane	mg/kg	<0.068	<0.071	<0.028	<0.031
2,2-Dichloropropane	mg/kg	<0.0085	<0.0089	<0.0034	<0.0039
2-Butanone	mg/kg	<0.017	<0.018	<0.0069	<0.0078
2-Hexanone	mg/kg	<0.017	<0.018	<0.0069	<0.0078
4-Methyl-2-pentanone	mg/kg	<0.017	<0.018	<0.0069	<0.0078
Acetone	mg/kg	0.07	<0.064	<0.025	<0.028
Benzene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Bromobenzene	mg/kg	<0.0085	<0.0089	<0.0034	<0.0039
Bromochloromethane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Bromodichloromethane	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Bromoform	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Bromomethane	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
Carbon disulfide	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Carbon tetrachloride	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Chlorobenzene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Chloroethane	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
Chloroform	mg/kg	<0.0026	<0.0027	<0.001	<0.0012
Chloromethane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
cis-1,2-Dichloroethene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
cis-1,3-Dichloropropene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Dibromochloromethane	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Dibromomethane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Dichlorodifluoromethane	mg/kg	<0.017	<0.018	<0.0069	<0.0078
Diethyl ether	mg/kg	<0.0085	<0.0089	<0.0034	<0.0039
Di-isopropyl ether	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Ethyl tertiary-butyl ether	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Ethylbenzene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Hexachlorobutadiene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Isopropylbenzene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Methyl tert-butyl ether	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
Methylene chloride	mg/kg	<0.017	<0.018	<0.0069	<0.0078
Naphthalene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
n-Butylbenzene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
n-Propylbenzene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
o-Chlorotoluene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
o-Xylene	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
p/m-Xylenes	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
p-Chlorotoluene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031

TABLE 3
PRECHARACTIZATION CELL SOIL AND ALNALYTICAL RESULTS
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Depth Interval (ft.) Sampling Date	DL-1 DL_1 L1716611/L1715945 5/16/2017	DL-2 DL_2 L1715945 5/16/2017	DL-3 DL_3 L1715945 5/16/2017	DL-4 DL_4 L1716611/L1715945 5/16/2017
p-Isopropyltoluene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
sec-Butylbenzene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Styrene	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
Tert-amyl methyl ether	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Tert-Butylbenzene	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Tetrachloroethene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Tetrahydrofuran	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Toluene	mg/kg	<0.0026	<0.0027	<0.001	<0.0012
trans-1,2-Dichloroethene	mg/kg	<0.0026	<0.0027	<0.001	<0.0012
trans-1,3-Dichloropropene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Trichloroethene	mg/kg	<0.0017	<0.0018	<0.00069	<0.00078
Trichlorofluoromethane	mg/kg	<0.0068	<0.0071	<0.0028	<0.0031
Vinyl chloride	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
Xylenes, Total	mg/kg	<0.0034	<0.0036	<0.0014	<0.0016
Total VOCs	mg/kg	0.07	ND	ND	ND
Semi-Volatile Organic Compounds					
1,2,4-Trichlorobenzene	mg/kg	<0.36	<0.38	<0.18	<0.2
1,2-Dichlorobenzene	mg/kg	<0.36	<0.38	<0.18	<0.2
1,3-Dichlorobenzene	mg/kg	<0.36	<0.38	<0.18	<0.2
1,4-Dichlorobenzene	mg/kg	<0.36	<0.38	<0.18	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.36	<0.38	<0.18	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.21	<0.23	<0.11	<0.12
2,4-Dichlorophenol	mg/kg	<0.32	<0.34	<0.16	<0.18
2,4-Dimethylphenol	mg/kg	<0.36	<0.38	<0.18	<0.2
2,4-Dinitrophenol	mg/kg	<1.7	<1.8	<0.87	<0.96
2,4-Dinitrotoluene	mg/kg	<0.36	<0.38	<0.18	<0.2
2,6-Dinitrotoluene	mg/kg	<0.36	<0.38	<0.18	<0.2
2-Chloronaphthalene	mg/kg	<0.36	<0.38	<0.18	<0.2
2-Chlorophenol	mg/kg	<0.36	<0.38	<0.18	<0.2
2-Methylnaphthalene	mg/kg	<0.43	<0.46	<0.22	<0.24
2-Methylphenol	mg/kg	<0.36	<0.38	<0.18	<0.2
2-Nitrophenol	mg/kg	<0.77	<0.82	<0.39	<0.43
3,3'-Dichlorobenzidine	mg/kg	<0.36	<0.38	<0.18	<0.2
3-Methylphenol/4-Methylphenol	mg/kg	<0.51	<0.55	<0.26	<0.29
4-Bromophenyl phenyl ether	mg/kg	<0.36	<0.38	<0.18	<0.2
4-Chloroaniline	mg/kg	<0.36	<0.38	<0.18	<0.2
4-Nitrophenol	mg/kg	<0.5	<0.53	<0.25	<0.28
Acenaphthene	mg/kg	0.55	<0.3	<0.14	<0.16
Acenaphthylene	mg/kg	0.72	<0.3	<0.14	<0.16
Acetophenone	mg/kg	<0.36	<0.38	<0.18	<0.2
Aniline	mg/kg	<0.43	<0.46	<0.22	<0.24
Anthracene	mg/kg	3.7	0.51	<0.11	0.24
Azobenzene	mg/kg	<0.36	<0.38	<0.18	<0.2
Benzo(a)anthracene	mg/kg	6.2	0.38	0.13	0.59
Benzo(a)pyrene	mg/kg	5.4	0.36	<0.14	0.51
Benzo(b)fluoranthene	mg/kg	6.2	0.4	0.16	0.74
Benzo(ghi)perylene	mg/kg	2.5	<0.3	<0.14	0.27
Benzo(k)fluoranthene	mg/kg	2.2	<0.23	<0.11	0.21
Bis(2-chloroethoxy)methane	mg/kg	<0.38	<0.41	<0.2	<0.22
Bis(2-chloroethyl)ether	mg/kg	<0.32	<0.34	<0.16	<0.18
Bis(2-chloroisopropyl)ether	mg/kg	<0.43	<0.46	<0.22	<0.24
Bis(2-ethylhexyl)phthalate	mg/kg	1.4	<0.38	<0.18	<0.2
Butyl benzyl phthalate	mg/kg	<0.36	<0.38	<0.18	<0.2
Chrysene	mg/kg	5.6	0.39	0.13	0.61
Dibenzo(a,h)anthracene	mg/kg	0.66	<0.23	<0.11	<0.12
Dibenzofuran	mg/kg	0.54	0.44	<0.18	<0.2
Diethyl phthalate	mg/kg	<0.36	<0.38	<0.18	<0.2
Dimethylphthalate	mg/kg	<0.36	<0.38	<0.18	<0.2
Di-n-butylphthalate	mg/kg	<0.36	<0.38	<0.18	<0.2
Di-n-octyl phthalate	mg/kg	<0.36	<0.38	<0.18	<0.2
Fluoranthene	mg/kg	12	1.1	0.23	1.1
Fluorene	mg/kg	0.94	0.5	<0.18	<0.2
Hexachlorobenzene	mg/kg	<0.21	<0.23	<0.11	<0.12

TABLE 3
PRECHARACTIZATION CELL SOIL AND ALNALYTICAL RESULTS
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analyte	Precharacterization Cell Sample ID Laboratory Work Order Depth Interval (ft.) Sampling Date	DL-1 DL_1 L1716611/L1715945 5/16/2017	DL-2 DL_2 L1715945 5/16/2017	DL-3 DL_3 L1715945 5/16/2017	DL-4 DL_4 L1716611/L1715945 5/16/2017
Hexachlorobutadiene	mg/kg	<0.36	<0.38	<0.18	<0.2
Hexachloroethane	mg/kg	<0.28	<0.3	<0.14	<0.16
Indeno(1,2,3-cd)pyrene	mg/kg	2.9	<0.3	<0.14	0.3
Isophorone	mg/kg	<0.32	<0.34	<0.16	<0.18
Naphthalene	mg/kg	1.3	<0.38	<0.18	0.21
Nitrobenzene	mg/kg	<0.32	<0.34	<0.16	<0.18
Pentachlorophenol	mg/kg	<0.71	<0.76	<0.36	<0.4
Phenanthrene	mg/kg	9.2	1.9	0.14	0.76
Phenol	mg/kg	<0.36	<0.38	<0.18	<0.2
Pyrene	mg/kg	11	0.9	0.2	1.1
Pyridine	mg/kg	<0.38	<0.41	<0.2	<0.22
Total SVOCs	mg/kg	73.01	6.88	0.99	6.64
Classic Chemistry					
Corrosivity (pH)	SU	7.2	7	7.6	7.1
Conductivity	umhos/cm	130	1200	110	420
Flashpoint	deg f	>150	>150	>150	>150
Ignitability	none	N.I.	N.I.	N.I.	N.I.
Reactive Cyanide	mg/kg	< 10	< 10	< 10	< 10
Reactive Sulfide	mg/kg	< 10	< 10	< 10	< 10

Notes:
1. Samples in which detected concentrations of a 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.

TABLE 4

PRECHARACTERIZATION GRID COMPANION CELL RESULTS

Wynn Boston Harbor

1 Horizon Way

Everett, Massachusetts

Analyte	Sample Location Sample ID Laboratory Work Order Depth Interval (ft.) Sampling Date	G-K 20/G19 (3.3-6.6) L1719460 3.3-6.6 6/12/2017	G-K 20/H19 (3.3-6.6) L1719460 3.3-6.6 6/12/2017	G-K 20/I19 (3.3-6.6) L1719460 3.3-6.6 6/12/2017	G-K 20/J19 (3.3-6.6) L1719460 3.3-6.6 6/12/2017	K19/L18 (3.3-6.6) L1719460 3.3-6.6 6/12/2017
Metals by Toxicity Characteristic Leaching Procedure (TCLP)						
Lead, TCLP	mg/l	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500

Notes:

1. "<" indicates not detected above the laboratory report limit shown to the right

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE-4A	SHORELINE STOCKPILE-4B	SHORELINE STOCKPILE-4C	SHORELINE STOCKPILE-4D	SHORELINE STOCKPILE-4E	SHORELINE STOCKPILE-4F	SHORELINE STOCKPILE-2A	SHORELINE STOCKPILE-2B	SHORELINE STOCKPILE-2C	SHORELINE STOCKPILE-2D	SHORELINE STOCKPILE-2E	SHORELINE STOCKPILE #7A	SHORELINE STOCKPILE #7B
	Laboratory Work Order	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1704558/L1705216	L1704558	L1704558	L1704558/L1705216	L1704558	L1712318/L1712815	L1712318
	Sampling Date	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/14/2017	2/14/2017	2/14/2017	2/14/2017	2/14/2017	4/19/2017	4/19/2017
Total Metals	**Units**													
Antimony	mg/kg	4.6	5.7	7.3	5.3	5.1	7.5	5.1	< 2.9	< 2.7	< 2.9	< 3.0	5.4	< 2.4
Arsenic	mg/kg	180	150	230	180	200	180	160	52	47	69	40	56	20
Barium	mg/kg	39	42	38	42	36	39	31	21	23	26	23	65	50
Beryllium	mg/kg	< 0.25	< 0.26	< 0.24	< 0.25	< 0.25	< 0.26	< 0.26	< 0.29	< 0.27	< 0.29	< 0.30	0.28	0.31
Cadmium	mg/kg	0.63	0.7	1.1	0.72	0.66	0.63	0.68	< 0.59	< 0.54	< 0.59	< 0.59	0.46	< 0.48
Chromium	mg/kg	22	23	24	23	25	31	24	21	19	18	27	17	24
Lead	mg/kg	170	260	200	180	160	190	190	64	82	130	77	300	84
Mercury	mg/kg	0.819	1.28	1.33	1.26	1.3	1.95	1.22	0.448	0.786	0.726	0.742	1.01	0.257
Nickel	mg/kg	14	13	10	14	13	15	13	11	12	11	14	10	16
Selenium	mg/kg	4.5	4	5.9	3.9	4	5	3.5	< 2.9	< 2.7	< 2.9	< 3.0	2.8	< 2.4
Silver	mg/kg	0.6	1.4	2.2	1.2	0.78	1	1.7	< 0.59	< 0.54	< 0.59	< 0.59	< 0.45	< 0.48
Thallium	mg/kg	< 2.5	< 2.6	< 2.4	< 2.5	< 2.5	< 2.6	< 2.6	< 2.9	< 2.7	< 2.9	< 3.0	< 2.2	< 2.4
Vanadium	mg/kg	44	28	33	30	31	33	26	24	26	28	35	21	29
Zinc	mg/kg	140	130	180	130	120	130	170	77	79	92	88	170	77
Metals by Toxicity Characteristic Leaching Procedure (TCLP)														
Arsenic, TCLP	mg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--	--	--	--
Lead, TCLP	mg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 0.50	--	< 0.50	--
Mercury, TCLP	mg/l	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium, TCLP	mg/l	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides														
2,4,5-T	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
2,4,5-TP (Silvex)	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
2,4-D	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
2,4-DB	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
Dalapon	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
Dicamba	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
Dichlorprop	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
Dinoseb	mg/kg	<0.83	<0.87	<0.81	<0.84	<0.84	<0.86	<0.91	<0.98	<0.93	<1	<1	<0.038	<0.042
MCPA	mg/kg	<83	<87	<81	<84	<84	<86	<91	<98	<93	<100	<100	<3.8	<4.2
MCPP	mg/kg	<83	<87	<81	<84	<84	<86	<91	<98	<93	<100	<100	<3.8	<4.2
Total Herbicides	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides														
4,4'-DDD	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
4,4'-DDE	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
4,4'-DDT	mg/kg	<0.0893	<0.0198	<0.0176	<0.0921	<0.0186	<0.0956	<0.1	<0.111	<0.104	<0.11	<0.111	<0.0168	<0.0186
Aldrin	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
alpha-BHC	mg/kg	<0.0198	<0.00441	<0.00391	<0.0205	<0.00414	<0.0212	<0.0223	<0.0246	<0.023	<0.0245	<0.0247	<0.00372	<0.00414
beta-BHC	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
Chlordane	mg/kg	<0.387	<0.0859	<0.0763	<0.399	<0.0806	<0.414	<0.434	<0.479	<0.449	<0.477	<0.482	<0.0726	<0.0807
delta-BHC	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
Dieldrin	mg/kg	<0.0298	<0.00661	<0.00587	<0.0307	<0.0062	<0.0318	<0.0334	<0.0369	<0.0345	<0.0367	<0.0371	<0.00558	<0.0062
Endosulfan I	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
Endosulfan II	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
Endosulfan sulfate	mg/kg	<0.0198	<0.00441	<0.00391	<0.0205	<0.00414	<0.0212	<0.0223	<0.0246	<0.023	<0.0245	<0.0247	<0.00372	<0.00414
Endrin	mg/kg	<0.0198	<0.00441	<0.00391	<0.0205	<0.00414	<0.0212	<0.0223	<0.0246	<0.023	<0.0245	<0.0247	<0.00372	<0.00414
Endrin ketone	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
Heptachlor	mg/kg	<0.0238	<0.00529	<0.0047	<0.0246	<0.00496	<0.0255	<0.0267	<0.0295	<0.0276	<0.0294	<0.0296	<0.00447	<0.00496
Heptachlor epoxide	mg/kg	<0.0893	<0.0198	<0.0176	<0.0921	<0.0186	<0.0956	<0.1	<0.111	<0.104	<0.11	<0.111	<0.0168	<0.0186
Hexachlorobenzene	mg/kg	<0.0476	<0.0106	<0.0094	<0.0491	<0.00993	<0.051	<0.0535	<0.059	<0.0552	<0.0587	<0.0593	<0.00893	<0.00993
Lindane	mg/kg	<0.0159	<0.00352	<0.00313	<0.0164	<0.00331	<0.017	<0.0178	<0.0197	<0.0184	<0.0196	<0.0198	<0.00298	<0.00331
Methoxychlor	mg/kg	<0.0893	<0.0198	<0.0176	<0.0921	<0.0186	<0.0956	<0.1	<0.111	<0.104	<0.11	<0.111	<0.0168	<0.0186
Toxaphene	mg/kg	<0.893	<0.198	<0.176	<0.921	<0.186	<0.956	<1	<1.11	<1.04	<1.1	<1.11	<0.168	<0.186
Total Pesticides	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls														
Aroclor 1016	mg/kg	<0.0404	<0.044	<0.0399	<0.0423	<0.0404	<0.043	<0.0444	<0.0477	<0.0462	<0.0496	<0.0505	<0.0374	<0.042
Aroclor 1221	mg/kg	<0.0404	<0.044	<0.0399	<0.0423	<0.0404	<0.043	<0.0444	<0.0477	<0.0462	<0.0496	<0.0505	<0.0374	<0.042
Aroclor 1232	mg/kg	<0.0404	<0.044	<0.0399	<0.0423	<0.0404	<0.043	<0.0444	<0.0477	<0.0462	<0.0496	<0.0505	<0.0374	<0.042
Aroclor 1242	mg/kg	<0.0404	<0.044	<0.0399	<0.0423	<0.0404	<0.043	<0.0444	<0.0477	<0.0462	<0.0496	<0.0505	<0.0374	<0.042
Aroclor 1248	mg/kg	<0.0404	<0.044	<0.0399	<0.0423	<0.0404	<0.043	<0.0444	<0.0477	<0.0462	<0.0496	<0.0505	<0.0374	<0.042
Aroclor 1254	mg/kg	0.544	0.162	0.111	0.22	0.116	0.173	0.11	0.0871	0.0704	0.0518	<0.0505	0.115	0.0876
Aroclor 1260	mg/kg	0.241	0.236	0.0607	0.134	0.0966	0.0846	0.0611	0.049	<0.0462	<0.0496	<0.0505	0.0516	0.0612
Aroclor 1262	mg/kg	<0.0404	<0.044	<0.0399	<0.0423	<0.0404	<0.043	<0.0444	<0.0477	<0.0462	<0.0496	<0.0505	<0.0374	<0.042
Aroclor 1268	mg/kg	0.123	0.282	<0.0399	0.0939	0.087	0.0506	<0.0444	<0.0477	<0.0462	<0.0496	<0.0505	<0.0374	<0.042
Total PCBs	mg/kg	0.908	0.68	0.1717	0.4479	0.2996	0.3082	0.1711	0.1361	0.0704	0.0518	ND	0.1666	0.1488
Total Petroleum Hydrocarbons	mg/kg	209	104	191	206	123	98.9	66.6	125	<46.3	1130	<50.1	535	292
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
1,1,1-Trichloroethane	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
1,1,2,2-Tetrachloroethane	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
1,1,2-Trichloroethane	mg/kg	<0.0012	<0.0014	<0.059	<0.066	<0.0012	<0.0011	<0.086	<0.0009	<0.0011	<0.08	<0.1	<0.066	<0.092
1,1-Dichloroethane	mg/kg	<0.0012	<0.0014	<0.059	<0.066	<0.0012	<0.0011	<0.086	<0.0009	<0.0011	<0.08	<0.1	<0.066	<0.092
1,1-Dichloroethene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
1,1-Dichloropropene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,2,3-Trichlorobenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,2,3-Trichloropropane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,2,4-Trichlorobenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,2,4-Trimethylbenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,2-Dibromo-3-chloropropane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,2-Dibromoethane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE-4A	SHORELINE STOCKPILE-4B	SHORELINE STOCKPILE-4C	SHORELINE STOCKPILE-4D	SHORELINE STOCKPILE-4E	SHORELINE STOCKPILE-4F	SHORELINE STOCKPILE-2A	SHORELINE STOCKPILE-2B	SHORELINE STOCKPILE-2C	SHORELINE STOCKPILE-2D	SHORELINE STOCKPILE-2E	SHORELINE STOCKPILE #7A	SHORELINE STOCKPILE #7B
	Laboratory Work Order	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1704558/L1705216	L1704558	L1704558	L1704558/L1705216	L1704558	L1712318/L1712815	L1712318
	Sampling Date	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/14/2017	2/14/2017	2/14/2017	2/14/2017	2/14/2017	4/19/2017	4/19/2017
1,2-Dichlorobenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,2-Dichloroethane	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
1,2-Dichloropropane	mg/kg	<0.0027	<0.0033	<0.14	<0.15	<0.0027	<0.0026	<0.2	<0.0021	<0.0025	<0.19	<0.24	<0.15	<0.22
1,3,5-Trimethylbenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,3-Dichlorobenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,3-Dichloropropane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,4-Dichlorobenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
1,4-Dioxane	mg/kg	<0.031	<0.037	<3.9	<4.4	<0.031	<0.03	<5.8	<0.024	<0.029	<5.4	<7	<1.8	<2.5
2,2-Dichloropropane	mg/kg	<0.0039	<0.0047	<0.2	<0.22	<0.0039	<0.0038	<0.29	<0.003	<0.0036	<0.27	<0.35	<0.22	<0.31
2-Butanone	mg/kg	<0.0077	0.017	<0.39	<0.44	<0.0078	<0.0075	<0.58	<0.006	<0.0072	<0.54	<0.7	<0.44	<0.62
2-Hexanone	mg/kg	<0.0077	<0.0093	<0.39	<0.44	<0.0078	<0.0075	<0.58	<0.006	<0.0072	<0.54	<0.7	<0.44	<0.62
4-Methyl-2-pentanone	mg/kg	<0.0077	<0.0093	<0.39	<0.44	<0.0078	<0.0075	<0.58	<0.006	<0.0072	<0.54	<0.7	<0.44	<0.62
Acetone	mg/kg	<0.028	0.13	<1.4	<1.6	0.031	<0.027	<2.1	<0.022	<0.026	<1.9	<2.5	<1.6	<2.2
Benzene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Bromobenzene	mg/kg	<0.0039	<0.0047	<0.2	<0.22	<0.0039	<0.0038	<0.29	<0.003	<0.0036	<0.27	<0.35	<0.22	<0.31
Bromochloromethane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Bromodichloromethane	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Bromoform	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Bromomethane	mg/kg	<0.0015	<0.0019	<0.078	<0.088	<0.0016	<0.0015	<0.12	<0.0012	<0.0014	<0.11	<0.14	<0.088	<0.12
Carbon disulfide	mg/kg	0.0087	0.016	<0.16	<0.18	0.0063	0.0033	0.91	<0.0024	<0.0029	0.86	0.73	<0.18	<0.25
Carbon tetrachloride	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Chlorobenzene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	0.09	0.11
Chloroethane	mg/kg	<0.0015	<0.0019	<0.078	<0.088	<0.0016	<0.0015	<0.12	<0.0012	<0.0014	<0.11	<0.14	<0.088	<0.12
Chloroform	mg/kg	<0.0012	<0.0014	<0.059	<0.066	<0.0012	<0.0011	<0.086	<0.0009	<0.0011	<0.08	<0.1	<0.066	<0.092
Chloromethane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
cis-1,2-Dichloroethene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
cis-1,3-Dichloropropene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Dibromochloromethane	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Dibromomethane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Dichlorodifluoromethane	mg/kg	<0.0077	<0.0093	<0.39	<0.44	<0.0078	<0.0075	<0.58	<0.006	<0.0072	<0.54	<0.7	<0.44	<0.62
Diethyl ether	mg/kg	<0.0039	<0.0047	<0.2	<0.22	<0.0039	<0.0038	<0.29	<0.003	<0.0036	<0.27	<0.35	<0.22	<0.31
Di-isopropyl ether	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Ethyl tertiary-butyl ether	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Ethylbenzene	mg/kg	0.001	0.0083	<0.039	<0.044	0.0025	0.0018	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Hexachlorobutadiene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Isopropylbenzene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Methyl tert-butyl ether	mg/kg	<0.0015	<0.0019	<0.078	<0.088	<0.0016	<0.0015	<0.12	<0.0012	<0.0014	<0.11	<0.14	<0.088	<0.12
Methylene chloride	mg/kg	<0.0077	<0.0093	<0.39	<0.44	<0.0078	<0.0075	<0.58	<0.006	<0.0072	<0.54	<0.7	<0.44	<0.62
Naphthalene	mg/kg	0.055	0.047	1.2	1.3	0.087	0.0035	0.33	<0.0024	0.0035	<0.21	<0.28	0.82	0.47
n-Butylbenzene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
n-Propylbenzene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
o-Chlorotoluene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
o-Xylene	mg/kg	0.0032	0.016	<0.078	<0.088	0.0072	0.0049	<0.12	<0.0012	<0.0014	<0.11	<0.14	<0.088	<0.12
p/m-Xylenes	mg/kg	0.0053	0.035	<0.078	<0.088	0.012	0.0091	<0.12	0.0015	<0.0014	<0.11	<0.14	<0.088	<0.12
p-Chlorotoluene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
p-Isopropyltoluene	mg/kg	0.0032	0.01	0.042	0.056	0.0072	<0.00075	1.2	<0.0006	<0.00072	<0.054	<0.07	0.5	0.21
sec-Butylbenzene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Styrene	mg/kg	<0.0015	<0.0019	<0.078	<0.088	<0.0016	<0.0015	<0.12	<0.0012	<0.0014	<0.11	<0.14	<0.088	<0.12
Tert-amyl methyl ether	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Tert-Butylbenzene	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Tetrachloroethene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Tetrahydrofuran	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Toluene	mg/kg	<0.0012	<0.0014	<0.059	<0.066	<0.0012	<0.0011	<0.086	<0.0009	<0.0011	<0.08	<0.1	<0.066	<0.092
trans-1,2-Dichloroethene	mg/kg	<0.0012	<0.0014	<0.059	<0.066	<0.0012	<0.0011	<0.086	<0.0009	<0.0011	<0.08	<0.1	<0.066	<0.092
trans-1,3-Dichloropropene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Trichloroethene	mg/kg	<0.00077	<0.00093	<0.039	<0.044	<0.00078	<0.00075	<0.058	<0.0006	<0.00072	<0.054	<0.07	<0.044	<0.062
Trichlorofluoromethane	mg/kg	<0.0031	<0.0037	<0.16	<0.18	<0.0031	<0.003	<0.23	<0.0024	<0.0029	<0.21	<0.28	<0.18	<0.25
Vinyl chloride	mg/kg	<0.0015	<0.0019	<0.078	<0.088	<0.0016	<0.0015	<0.12	<0.0012	<0.0014	<0.11	<0.14	<0.088	<0.12
Xylenes, Total	mg/kg	0.0085	0.051	<0.078	<0.088	0.019	0.014	<0.12	0.0015	<0.0014	<0.11	<0.14	<0.088	<0.12
Total VOCs	mg/kg	0.0849	0.3303	1.242	1.356	0.1722	0.0366	2.44	0.003	0.0035	0.86	0.73	1.41	0.79
Semi-Volatile Organic Compounds														
1,2,4-Trichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
1,2-Dichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
1,3-Dichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
1,4-Dichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2,4,5-Trichlorophenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2,4,6-Trichlorophenol	mg/kg	<0.12	<0.13	<0.12	<0.12	<0.13	<0.13	<0.13	<0.15	<0.14	<0.15	<0.15	<0.12	<0.12
2,4-Dichlorophenol	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.19	<0.2	<0.22	<0.21	<0.22	<0.23	<0.17	<0.19
2,4-Dimethylphenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2,4-Dinitrophenol	mg/kg	<1	<1	<0.97	<0.99	<1	<1	<1.1	<1.2	<1.1	<1.2	<1.2	<0.93	<1
2,4-Dinitrotoluene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2,6-Dinitrotoluene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2-Chloronaphthalene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2-Chlorophenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2-Methylnaphthalene	mg/kg	<0.25	<0.26	<0.24	<0.25	<0.25	<0.26	<0.27	<0.29	<0.28	<0.29	<0.31	<0.23	<0.25
2-Methylphenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
2-Nitrophenol	mg/kg	<0.45	<0.47	<0.44	<0.44	<0.45	<0.46	<0.48	<0.53	<0.5	<0.53	<0.55	<0.42	<0.45
3,3'-Dichlorobenzidine	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
3-Methylphenol/4-Methylphenol	mg/kg	<0.3	<0.32	<0.29	<0.3	<0.3	<0.31	<0.32	<0.35	<0.33	<0.35	<0.37	<0.28	<0.3
4-Bromophenyl phenyl ether	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
4-Chloroaniline	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
4-Nitrophenol	mg/kg	<0.29	<0.31	<0.28	<0.29	<0.29	<0.3	<0.31	<0.34	<0.32	<0.34	<0.36	<0.27	<0.29

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE-4A	SHORELINE STOCKPILE-4B	SHORELINE STOCKPILE-4C	SHORELINE STOCKPILE-4D	SHORELINE STOCKPILE-4E	SHORELINE STOCKPILE-4F	SHORELINE STOCKPILE-2A	SHORELINE STOCKPILE-2B	SHORELINE STOCKPILE-2C	SHORELINE STOCKPILE-2D	SHORELINE STOCKPILE-2E	SHORELINE STOCKPILE #7A	SHORELINE STOCKPILE #7B
	Laboratory Work Order	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1703751/L1704204	L1704558/L1705216	L1704558	L1704558	L1704558/L1705216	L1704558	L1712318/L1712815	L1712318
	Sampling Date	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/14/2017	2/14/2017	2/14/2017	2/14/2017	2/14/2017	4/19/2017	4/19/2017
Acenaphthene	mg/kg	<0.17	<0.18	<0.16	0.4	<0.17	<0.17	<0.18	<0.2	<0.18	<0.2	<0.2	0.47	0.36
Acenaphthylene	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.17	<0.17	<0.18	<0.2	<0.18	<0.2	<0.2	<0.16	<0.17
Acetophenone	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Aniline	mg/kg	<0.25	<0.26	<0.24	<0.25	<0.25	<0.26	<0.27	<0.29	<0.28	<0.29	<0.31	<0.23	<0.25
Anthracene	mg/kg	0.17	0.23	<0.12	0.69	0.12	<0.13	<0.13	<0.15	<0.14	<0.15	<0.15	0.9	0.72
Azobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Benzo(a)anthracene	mg/kg	0.36	0.28	0.13	1.2	0.23	<0.13	0.14	<0.15	<0.14	0.16	<0.15	1.4	1.2
Benzo(a)pyrene	mg/kg	0.31	0.21	<0.16	0.92	0.2	<0.17	<0.18	<0.2	<0.18	<0.2	<0.2	1.2	1
Benzo(b)fluoranthene	mg/kg	0.44	0.27	<0.12	1.2	0.25	<0.13	0.14	<0.15	<0.14	0.26	<0.15	1.6	1.4
Benzo(ghi)perylene	mg/kg	<0.17	<0.18	<0.16	0.53	<0.17	<0.17	<0.18	<0.2	<0.18	<0.2	<0.2	0.59	0.5
Benzo(k)fluoranthene	mg/kg	0.15	<0.13	<0.12	0.4	<0.13	<0.13	<0.13	<0.15	<0.14	<0.15	<0.15	0.56	0.49
Bis(2-chloroethoxy)methane	mg/kg	<0.22	<0.24	<0.22	<0.22	<0.23	<0.23	<0.24	<0.26	<0.25	<0.26	<0.28	<0.21	<0.23
Bis(2-chloroethyl)ether	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.19	<0.2	<0.22	<0.21	<0.22	<0.23	<0.17	<0.19
Bis(2-chloroisopropyl)ether	mg/kg	<0.25	<0.26	<0.24	<0.25	<0.25	<0.26	<0.27	<0.29	<0.28	<0.29	<0.31	<0.23	<0.25
Bis(2-ethylhexyl)phthalate	mg/kg	2	1.6	2.5	3	1.1	0.93	2.6	0.62	1	0.81	0.72	2.7	1.7
Butyl benzyl phthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Chrysene	mg/kg	0.32	0.26	0.12	1.1	0.24	<0.13	0.13	<0.15	<0.14	0.19	<0.15	1.3	1.1
Dibenzo(a,h)anthracene	mg/kg	<0.12	<0.13	<0.12	0.14	<0.13	<0.13	<0.13	<0.15	<0.14	<0.15	<0.15	0.17	0.14
Dibenzofuran	mg/kg	<0.21	<0.22	<0.2	0.25	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	0.22	<0.21
Diethyl phthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Dimethylphthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Di-n-butylphthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Di-n-octyl phthalate	mg/kg	0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Fluoranthene	mg/kg	0.76	0.6	0.36	2.7	0.72	0.28	0.33	<0.15	0.19	0.3	0.16	3.5	3
Fluorene	mg/kg	<0.21	<0.22	<0.2	0.37	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	0.38	0.32
Hexachlorobenzene	mg/kg	<0.12	<0.13	<0.12	<0.12	<0.13	<0.13	<0.13	<0.15	<0.14	<0.15	<0.15	<0.12	<0.12
Hexachlorobutadiene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Hexachloroethane	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.17	<0.17	<0.18	<0.2	<0.18	<0.2	<0.2	<0.16	<0.17
Indeno(1,2,3-cd)pyrene	mg/kg	0.18	<0.18	<0.16	0.57	<0.17	<0.17	<0.18	<0.2	<0.18	<0.2	<0.2	0.75	0.6
Isophorone	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.19	<0.2	<0.22	<0.21	<0.22	<0.23	<0.17	<0.19
Naphthalene	mg/kg	0.53	0.46	<0.2	0.42	<0.21	<0.21	0.68	<0.24	<0.23	<0.24	<0.26	0.45	0.35
Nitrobenzene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.19	<0.2	<0.22	<0.21	<0.22	<0.23	<0.17	<0.19
Pentachlorophenol	mg/kg	<0.42	<0.44	<0.4	<0.41	<0.42	<0.42	<0.45	<0.49	<0.46	<0.49	<0.51	<0.39	<0.42
Phenanthrene	mg/kg	0.54	0.56	0.28	2.7	0.53	0.28	0.34	<0.15	0.19	0.2	<0.15	2.6	2.3
Phenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.21	<0.21	<0.22	<0.24	<0.23	<0.24	<0.26	<0.19	<0.21
Pyrene	mg/kg	0.67	0.46	0.28	2.1	0.52	0.25	0.28	<0.15	0.17	0.29	0.16	2.6	2.3
Pyridine	mg/kg	<0.22	<0.24	<0.22	<0.22	<0.23	<0.23	<0.24	<0.26	<0.25	<0.26	<0.28	<0.21	<0.23
Total SVOCs	mg/kg	6.64	4.93	3.67	18.69	3.91	1.74	4.64	0.62	1.55	2.21	1.04	21.39	17.48
Classic Chemistry														
Corrosivity (pH)	SU	7.4	7.4	7.4	7.5	7.5	7.3	7.4	7.4	7.5	7.6	7.4	7.5	8
Conductivity	umhos/cm	2000	1300	1600	1400	1300	1400	940	1300	1400	580	1500	1100	620
Flashpoint	deg f	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150
Ignitability	none	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
Reactive Cyanide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Reactive Sulfide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
1. Samples in which detected concentrations of a 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.

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE #7C	SHORELINE STOCKPILE #7D	SHORELINE STOCKPILE #7E	SHORELINE STOCKPILE #7F	SHORELINE STOCKPILE #7G	SHORELINE STOCKPILE #5A	SHORELINE STOCKPILE #5B	SHORELINE STOCKPILE #5C	SHORELINE STOCKPILE #5D	SHORELINE STOCKPILE #5E	SHORELINE STOCKPILE #6A	SHORELINE STOCKPILE #6B	SHORELINE STOCKPILE #6C
	Laboratory Work Order	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1714154/L1714542	L1714154/L1714542	L1714154/L1714542
	Sampling Date	4/19/2017	4/19/2017	4/19/2017	4/19/2017	4/19/2017	4/24/2017	4/24/2017	4/24/2017	4/24/2017	4/24/2017	5/3/2017	5/3/2017	5/3/2017
Total Metals	**Units**													
Antimony	mg/kg	4.4	3.5	4.1	4.3	4.9	< 2.4	< 2.4	< 2.4	< 2.5	< 2.5	27	17	24
Arsenic	mg/kg	44	40	59	67	56	34	37	26	130	35	180	180	110
Barium	mg/kg	55	57	58	40	41	29	35	26	53	40	61	64	67
Beryllium	mg/kg	< 0.25	0.31	0.32	< 0.23	< 0.22	0.35	0.29	0.42	0.52	0.38	< 0.23	< 0.24	< 0.25
Cadmium	mg/kg	< 0.49	< 0.55	< 0.48	< 0.46	< 0.45	0.48	< 0.47	< 0.48	< 0.50	< 0.50	0.92	1.1	1.1
Chromium	mg/kg	20	23	22	18	17	17	16	13	25	20	17	19	16
Lead	mg/kg	280	200	250	190	240	140	160	100	170	130	1400	820	940
Mercury	mg/kg	1.05	1.04	2.38	1.1	0.783	0.562	0.79	0.832	0.716	0.805	0.697	3.48	1.82
Nickel	mg/kg	13	14	13	10	10	12	10	9	15	14	5.4	8.6	6.7
Selenium	mg/kg	< 2.5	< 2.7	< 2.4	2.6	3.4	< 2.4	< 2.4	< 2.4	< 2.5	< 2.5	< 2.3	4.5	< 2.5
Silver	mg/kg	< 0.49	< 0.55	< 0.48	< 0.46	< 0.45	< 0.48	< 0.47	< 0.48	< 0.50	< 0.50	2.8	2.6	2.7
Thallium	mg/kg	< 2.5	< 2.7	< 2.4	< 2.3	< 2.2	< 2.4	< 2.4	< 2.4	< 2.5	< 2.5	< 2.3	< 2.4	< 2.5
Vanadium	mg/kg	25	27	29	20	22	20	20	15	34	26	15	19	16
Zinc	mg/kg	140	140	130	130	230	210	160	170	170	130	140	130	130
Metals by Toxicity Characteristic Leaching Procedure (TCLP)														
Arsenic, TCLP	mg/l	--	--	--	--	--	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0
Lead, TCLP	mg/l	< 0.50	< 0.50	0.57	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	5.6	4.3	5.4
Mercury, TCLP	mg/l	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium, TCLP	mg/l	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides														
2,4,5-T	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
2,4,5-TP (Silvex)	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
2,4-D	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
2,4-DB	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
Dalapon	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
Dicamba	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
Dichlorprop	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
Dinoseb	mg/kg	<0.041	<0.045	<0.041	<0.2	<0.038	<0.04	<0.04	<0.041	<0.042	<0.041	<0.04	<0.04	<0.043
MCPA	mg/kg	<4.1	<4.5	<4.1	<20	<3.8	<4	<4	<4.1	<4.2	<4.1	<4	<4	<4.3
MCPP	mg/kg	<4.1	<4.5	<4.1	<20	<3.8	<4	<4	<4.1	<4.2	<4.1	<4	<4	<4.3
Total Herbicides	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides														
4,4'-DDD	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
4,4'-DDE	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
4,4'-DDT	mg/kg	<0.0187	<0.0202	<0.0178	<0.0176	<0.0166	0.0197	0.0234	<0.0186	<0.019	<0.0188	0.0197	0.0266	<0.0192
Aldrin	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
alpha-BHC	mg/kg	<0.00416	<0.00449	<0.00395	<0.00392	<0.00369	<0.00402	<0.00393	<0.00413	<0.00423	<0.00418	<0.00395	<0.00402	<0.00426
beta-BHC	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
Chlordane	mg/kg	<0.0811	<0.0875	<0.0771	<0.0765	<0.0719	<0.0785	<0.0766	<0.0805	<0.0825	<0.0816	<0.077	<0.0785	<0.0832
delta-BHC	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
Dieldrin	mg/kg	<0.00624	<0.00673	<0.00593	<0.00588	<0.00553	0.00647	0.0106	<0.00619	<0.00635	<0.00628	<0.00592	<0.00604	<0.0064
Endosulfan I	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
Endosulfan II	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
Endosulfan sulfate	mg/kg	<0.00416	<0.00449	<0.00395	<0.00392	<0.00369	<0.00402	<0.00393	<0.00413	<0.00423	<0.00418	<0.00395	<0.00402	<0.00426
Endrin	mg/kg	<0.00416	<0.00449	<0.00395	<0.00392	<0.00369	0.00501	<0.00393	<0.00413	<0.00423	<0.00418	<0.00395	<0.00402	<0.00426
Endrin ketone	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	0.0178	<0.00943	<0.0099	<0.0102	0.0118	<0.00947	<0.00966	<0.0102
Heptachlor	mg/kg	<0.00499	<0.00539	<0.00474	<0.00471	<0.00442	<0.00483	<0.00472	<0.00495	<0.00508	<0.00502	<0.00474	<0.00483	<0.00512
Heptachlor epoxide	mg/kg	<0.0187	<0.0202	<0.0178	<0.0176	<0.0166	<0.0181	<0.0177	<0.0186	<0.019	<0.0188	<0.0178	<0.0181	<0.0192
Hexachlorobenzene	mg/kg	<0.00999	<0.0108	<0.00949	<0.00942	<0.00885	<0.00966	<0.00943	<0.0099	<0.0102	<0.01	<0.00947	<0.00966	<0.0102
Lindane	mg/kg	<0.00333	<0.00359	<0.00316	<0.00314	<0.00295	<0.00322	<0.00314	<0.0033	<0.00338	<0.00335	<0.00316	<0.00322	<0.00341
Methoxychlor	mg/kg	<0.0187	<0.0202	<0.0178	<0.0176	<0.0166	<0.0181	<0.0177	<0.0186	<0.019	<0.0188	<0.0178	<0.0181	<0.0192
Toxaphene	mg/kg	<0.187	<0.202	<0.178	<0.176	<0.166	<0.181	<0.177	<0.186	<0.19	<0.188	<0.178	<0.181	<0.192
Total Pesticides	mg/kg	ND	ND	ND	ND	ND	0.04898	0.034	ND	ND	0.0118	0.0197	0.0266	ND
Polychlorinated Biphenyls														
Aroclor 1016	mg/kg	<0.0418	<0.0452	<0.0404	<0.0383	<0.038	<0.0393	<0.0394	<0.041	<0.0424	<0.0402	<0.0386	<0.04	<0.0426
Aroclor 1221	mg/kg	<0.0418	<0.0452	<0.0404	<0.0383	<0.038	<0.0393	<0.0394	<0.041	<0.0424	<0.0402	<0.0386	<0.04	<0.0426
Aroclor 1232	mg/kg	<0.0418	<0.0452	<0.0404	<0.0383	<0.038	<0.0393	<0.0394	<0.041	<0.0424	<0.0402	<0.0386	<0.04	<0.0426
Aroclor 1242	mg/kg	<0.0418	<0.0452	<0.0404	<0.0383	<0.038	<0.0393	<0.0394	<0.041	<0.0424	<0.0402	<0.0386	<0.04	<0.0426
Aroclor 1248	mg/kg	<0.0418	<0.0452	<0.0404	<0.0383	<0.038	<0.0393	<0.0394	<0.041	<0.0424	<0.0402	<0.0386	<0.04	<0.0426
Aroclor 1254	mg/kg	0.054	0.047	<0.0404	0.13	0.0917	<0.0393	0.122	0.0477	0.222	0.0662	0.094	0.093	0.131
Aroclor 1260	mg/kg	<0.0418	<0.0452	<0.0404	0.0664	0.052	<0.0393	0.0503	<0.041	0.165	<0.0402	<0.0386	0.0405	0.0432
Aroclor 1262	mg/kg	<0.0418	<0.0452	<0.0404	<0.0383	<0.038	<0.0393	<0.0394	<0.041	<0.0424	<0.0402	<0.0386	<0.04	<0.0426
Aroclor 1268	mg/kg	<0.0418	<0.0452	<0.0404	<0.0383	<0.038	<0.0393	<0.0394	<0.041	<0.0424	<0.0402	<0.0386	<0.04	<0.0426
Total PCBs	mg/kg	0.054	0.047	ND	0.1964	0.1437	ND	0.1723	0.0477	0.387	0.0662	0.094	0.1335	0.1742
Total Petroleum Hydrocarbons	mg/kg	431	465	220	1680	201	820	354	570	521	306	132	88.7	108
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
1,1,1-Trichloroethane	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
1,1,2,2-Tetrachloroethane	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
1,1,2-Trichloroethane	mg/kg	<0.07	<0.077	<0.084	<0.067	<0.086	<0.00076	<0.00073	<0.081	<0.00076	<0.00093	<0.00088	<0.00097	<0.11
1,1-Dichloroethane	mg/kg	<0.07	<0.077	<0.084	<0.067	<0.086	<0.00076	<0.00073	<0.081	<0.00076	<0.00093	<0.00088	<0.00097	<0.11
1,1-Dichloroethene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
1,1-Dichloropropene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,2,3-Trichlorobenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,2,3-Trichloropropane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,2,4-Trichlorobenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,2,4-Trimethylbenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,2-Dibromo-3-chloropropane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,2-Dibromoethane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE #7C	SHORELINE STOCKPILE #7D	SHORELINE STOCKPILE #7E	SHORELINE STOCKPILE #7F	SHORELINE STOCKPILE #7G	SHORELINE STOCKPILE #5A	SHORELINE STOCKPILE #5B	SHORELINE STOCKPILE #5C	SHORELINE STOCKPILE #5D	SHORELINE STOCKPILE #5E	SHORELINE STOCKPILE #6A	SHORELINE STOCKPILE #6B	SHORELINE STOCKPILE #6C
	Laboratory Work Order	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1714154/L1714542	L1714154/L1714542	L1714154/L1714542
	Sampling Date	4/19/2017	4/19/2017	4/19/2017	4/19/2017	4/19/2017	4/24/2017	4/24/2017	4/24/2017	4/24/2017	4/24/2017	5/3/2017	5/3/2017	5/3/2017
1,2-Dichlorobenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,2-Dichloroethane	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
1,2-Dichloropropane	mg/kg	<0.16	<0.18	<0.2	<0.16	<0.2	<0.0018	<0.0017	<0.19	<0.0018	<0.0022	<0.0021	<0.0022	<0.25
1,3,5-Trimethylbenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,3-Dichlorobenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,3-Dichloropropane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,4-Dichlorobenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
1,4-Dioxane	mg/kg	<1.8	<2	<2.2	<1.8	<2.3	<0.02	<0.02	<2.2	<0.02	<0.025	<0.024	<0.026	<2.9
2,2-Dichloropropane	mg/kg	<0.23	<0.26	<0.28	<0.22	<0.28	<0.0025	<0.0024	<0.27	<0.0025	<0.0031	<0.003	<0.0032	<0.36
2-Butanone	mg/kg	<0.46	<0.51	<0.56	<0.45	<0.57	<0.0051	<0.0049	<0.54	<0.005	<0.0062	<0.0059	<0.0064	<0.72
2-Hexanone	mg/kg	<0.46	<0.51	<0.56	<0.45	<0.57	<0.0051	<0.0049	<0.54	<0.005	<0.0062	<0.0059	<0.0064	<0.72
4-Methyl-2-pentanone	mg/kg	<0.46	<0.51	<0.56	<0.45	<0.57	<0.0051	<0.0049	<0.54	<0.005	<0.0062	<0.0059	<0.0064	<0.72
Acetone	mg/kg	<1.7	<1.8	<2	<1.6	<2	<0.018	<0.018	<1.9	<0.018	<0.022	<0.021	<0.023	<2.6
Benzene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Bromobenzene	mg/kg	<0.23	<0.26	<0.28	<0.22	<0.28	<0.0025	<0.0024	<0.27	<0.0025	<0.0031	<0.003	<0.0032	<0.36
Bromochloromethane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Bromodichloromethane	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Bromoform	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Bromomethane	mg/kg	<0.093	<0.1	<0.11	<0.09	<0.11	<0.001	<0.00098	<0.11	<0.001	<0.0012	<0.0012	<0.0013	<0.14
Carbon disulfide	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	0.25	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Carbon tetrachloride	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Chlorobenzene	mg/kg	0.1	0.26	0.07	0.056	<0.057	<0.00051	<0.00049	<0.054	<0.0005	0.0019	<0.00059	<0.00064	<0.072
Chloroethane	mg/kg	<0.093	<0.1	<0.11	<0.09	<0.11	<0.001	<0.00098	<0.11	<0.001	<0.0012	<0.0012	<0.0013	<0.14
Chloroform	mg/kg	<0.07	<0.077	<0.084	<0.067	<0.086	<0.00076	<0.00073	<0.081	<0.00076	<0.00093	<0.00088	<0.00097	<0.11
Chloromethane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
cis-1,2-Dichloroethene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
cis-1,3-Dichloropropene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Dibromochloromethane	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Dibromomethane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Dichlorodifluoromethane	mg/kg	<0.46	<0.51	<0.56	<0.45	<0.57	<0.0051	<0.0049	<0.54	<0.005	<0.0062	<0.0059	<0.0064	<0.72
Diethyl ether	mg/kg	<0.23	<0.26	<0.28	<0.22	<0.28	<0.0025	<0.0024	<0.27	<0.0025	<0.0031	<0.003	<0.0032	<0.36
Di-isopropyl ether	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Ethyl tertiary-butyl ether	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Ethylbenzene	mg/kg	0.1	<0.051	<0.056	0.046	0.077	<0.00051	0.00079	0.2	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Hexachlorobutadiene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Isopropylbenzene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Methyl tert-butyl ether	mg/kg	<0.093	<0.1	<0.11	<0.09	<0.11	<0.001	<0.00098	<0.11	<0.001	<0.0012	<0.0012	<0.0013	<0.14
Methylene chloride	mg/kg	<0.46	<0.51	<0.56	<0.45	<0.57	<0.0051	<0.0049	<0.54	<0.005	<0.0062	<0.0059	<0.0064	<0.72
Naphthalene	mg/kg	0.81	1.3	0.35	0.4	0.32	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
n-Butylbenzene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
n-Propylbenzene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
o-Chlorotoluene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
o-Xylene	mg/kg	0.23	<0.1	<0.11	0.11	<0.11	<0.001	0.0026	0.34	<0.001	0.0015	<0.0012	<0.0013	<0.14
p/m-Xylenes	mg/kg	0.42	<0.1	<0.11	0.16	0.28	<0.001	0.0026	0.79	<0.001	<0.0012	<0.0012	<0.0013	<0.14
p-Chlorotoluene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
p-Isopropyltoluene	mg/kg	0.57	0.77	0.17	0.34	<0.057	<0.00051	0.0025	<0.054	0.0015	0.0019	<0.00059	<0.00064	<0.072
sec-Butylbenzene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Styrene	mg/kg	<0.093	<0.1	<0.11	<0.09	<0.11	<0.001	<0.00098	<0.11	<0.001	<0.0012	<0.0012	<0.0013	<0.14
Tert-amyl methyl ether	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Tert-Butylbenzene	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Tetrachloroethene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Tetrahydrofuran	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Toluene	mg/kg	<0.07	<0.077	<0.084	<0.067	<0.086	<0.00076	<0.00073	<0.081	<0.00076	<0.00093	<0.00088	<0.00097	<0.11
trans-1,2-Dichloroethene	mg/kg	<0.07	<0.077	<0.084	<0.067	<0.086	<0.00076	<0.00073	<0.081	<0.00076	<0.00093	<0.00088	<0.00097	<0.11
trans-1,3-Dichloropropene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Trichloroethene	mg/kg	<0.046	<0.051	<0.056	<0.045	<0.057	<0.00051	<0.00049	<0.054	<0.0005	<0.00062	<0.00059	<0.00064	<0.072
Trichlorofluoromethane	mg/kg	<0.18	<0.2	<0.22	<0.18	<0.23	<0.002	<0.002	<0.22	<0.002	<0.0025	<0.0024	<0.0026	<0.29
Vinyl chloride	mg/kg	<0.093	<0.1	<0.11	<0.09	<0.11	<0.001	<0.00098	<0.11	<0.001	<0.0012	<0.0012	<0.0013	<0.14
Xylenes, Total	mg/kg	0.65	<0.1	<0.11	0.27	0.28	<0.001	0.0052	1.1	<0.001	0.0015	<0.0012	<0.0013	<0.14
Total VOCs	mg/kg	2.88	2.33	0.59	1.382	0.957	ND	0.01369	2.68	0.0015	0.0068	ND	ND	ND
Semi-Volatile Organic Compounds														
1,2,4-Trichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
1,2-Dichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
1,3-Dichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
1,4-Dichlorobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2,4,5-Trichlorophenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2,4,6-Trichlorophenol	mg/kg	<0.12	<0.13	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13	<0.12	<0.12	<0.12	<0.13
2,4-Dichlorophenol	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18	<0.19	<0.19	<0.18	<0.18	<0.19
2,4-Dimethylphenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2,4-Dinitrophenol	mg/kg	<1	<1.1	<0.98	<0.95	<0.92	<0.96	<0.95	<0.99	<1	<1	<0.96	<0.96	<1
2,4-Dinitrotoluene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2,6-Dinitrotoluene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2-Chloronaphthalene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2-Chlorophenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2-Methylnaphthalene	mg/kg	<0.25	<0.27	<0.25	<0.24	<0.23	0.72	<0.24	0.4	<0.25	<0.25	<0.24	<0.24	<0.25
2-Methylphenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
2-Nitrophenol	mg/kg	<0.45	<0.48	<0.44	<0.43	<0.41	<0.43	<0.43	<0.44	<0.46	<0.45	<0.43	<0.43	<0.46
3,3'-Dichlorobenzidine	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
3-Methylphenol/4-Methylphenol	mg/kg	<0.3	<0.32	<0.3	<0.28	<0.28	<0.29	<0.28	<0.3	<0.3	<0.3	<0.29	<0.29	<0.3
4-Bromophenyl phenyl ether	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
4-Chloroaniline	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
4-Nitrophenol	mg/kg	<0.29	<0.31	<0.29	<0.28	<0.27	<0.28	<0.28	<0.29	<0.3	<0.29	<0.28	<0.28	<0.3

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE #7C	SHORELINE STOCKPILE #7D	SHORELINE STOCKPILE #7E	SHORELINE STOCKPILE #7F	SHORELINE STOCKPILE #7G	SHORELINE STOCKPILE #5A	SHORELINE STOCKPILE #5B	SHORELINE STOCKPILE #5C	SHORELINE STOCKPILE #5D	SHORELINE STOCKPILE #5E	SHORELINE STOCKPILE #6A	SHORELINE STOCKPILE #6B	SHORELINE STOCKPILE #6C
	Laboratory Work Order	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712318/L1712815	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1712854/L1713409	L1714154/L1714542	L1714154/L1714542	L1714154/L1714542
	Sampling Date	4/19/2017	4/19/2017	4/19/2017	4/19/2017	4/19/2017	4/24/2017	4/24/2017	4/24/2017	4/24/2017	4/24/2017	5/3/2017	5/3/2017	5/3/2017
Acenaphthene	mg/kg	<0.17	0.37	1.2	0.17	<0.15	1.8	0.34	0.75	0.17	0.32	<0.16	<0.16	<0.17
Acenaphthylene	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.15	0.17	<0.16	<0.16	<0.17	<0.17	<0.16	<0.16	<0.17
Acetophenone	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Aniline	mg/kg	<0.25	<0.27	<0.25	<0.24	<0.23	<0.24	<0.24	<0.25	<0.25	<0.25	<0.24	<0.24	<0.25
Anthracene	mg/kg	0.22	0.69	1.3	0.38	0.21	3.4	0.76	1.2	0.4	0.51	0.18	0.21	<0.13
Azobenzene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Benzo(a)anthracene	mg/kg	0.49	0.95	0.97	0.76	0.4	4.6	1.3	1.4	0.8	0.52	0.4	0.38	0.21
Benzo(a)pyrene	mg/kg	0.41	0.78	0.64	0.67	0.34	4	1	1.2	0.69	0.4	0.34	0.31	0.18
Benzo(b)fluoranthene	mg/kg	0.58	1	0.91	0.97	0.43	5	1.4	1.5	0.87	0.51	0.43	0.44	0.22
Benzo(ghi)perylene	mg/kg	0.22	0.42	0.31	0.36	0.18	1.8	0.48	0.54	0.33	0.18	0.22	0.2	<0.17
Benzo(k)fluoranthene	mg/kg	0.22	0.33	0.3	0.29	0.16	1.8	0.46	0.51	0.32	0.19	0.15	0.12	<0.13
Bis(2-chloroethoxy)methane	mg/kg	<0.22	<0.24	<0.22	<0.21	<0.21	<0.22	<0.21	<0.22	<0.23	<0.22	<0.21	<0.22	<0.23
Bis(2-chloroethyl)ether	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18	<0.19	<0.19	<0.18	<0.18	<0.19
Bis(2-chloroisopropyl)ether	mg/kg	<0.25	<0.27	<0.25	<0.24	<0.23	<0.24	<0.24	<0.25	<0.25	<0.25	<0.24	<0.24	<0.25
Bis(2-ethylhexyl)phthalate	mg/kg	1.7	3.3	1.6	2	1.7	<0.2	3.4	1	1.1	0.4	<0.2	<0.2	<0.21
Butyl benzyl phthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Chrysene	mg/kg	0.43	0.86	0.92	0.72	0.38	3.6	1.1	1.2	0.69	0.42	0.39	0.38	0.21
Dibenzo(a,h)anthracene	mg/kg	<0.12	0.13	<0.12	<0.12	<0.12	0.51	0.15	0.15	<0.13	<0.12	<0.12	<0.12	<0.13
Dibenzofuran	mg/kg	<0.21	0.3	0.6	<0.2	<0.19	1	<0.2	0.48	<0.21	<0.21	<0.2	<0.2	<0.21
Diethyl phthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Dimethylphthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Di-n-butylphthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Di-n-octyl phthalate	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Fluoranthene	mg/kg	1.1	2.3	3.7	1.8	0.9	9.8	3.4	3.4	1.9	1.4	0.86	0.97	0.44
Fluorene	mg/kg	<0.21	0.42	1	<0.2	<0.19	1.6	0.29	0.69	<0.21	0.31	<0.2	<0.2	<0.21
Hexachlorobenzene	mg/kg	<0.12	<0.13	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13	<0.12	<0.12	<0.12	<0.13
Hexachlorobutadiene	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Hexachloroethane	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.15	<0.16	<0.16	<0.16	<0.17	<0.17	<0.16	<0.16	<0.17
Indeno(1,2,3-cd)pyrene	mg/kg	0.26	0.48	0.38	0.41	0.2	1.9	0.63	0.62	0.39	0.24	0.22	0.2	<0.17
Isophorone	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18	<0.19	<0.19	<0.18	<0.18	<0.19
Naphthalene	mg/kg	<0.21	0.45	1.6	0.21	0.22	1.3	<0.2	0.72	<0.21	<0.21	<0.2	<0.2	<0.21
Nitrobenzene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18	<0.19	<0.19	<0.18	<0.18	<0.19
Pentachlorophenol	mg/kg	<0.42	<0.45	<0.41	<0.4	<0.38	<0.4	<0.4	<0.41	<0.42	<0.42	<0.4	<0.4	<0.42
Phenanthrene	mg/kg	0.64	2.4	4.2	1.1	0.75	8.8	2.1	3.2	1.1	1.4	0.63	0.76	0.33
Phenol	mg/kg	<0.21	<0.22	<0.2	<0.2	<0.19	<0.2	<0.2	<0.21	<0.21	<0.21	<0.2	<0.2	<0.21
Pyrene	mg/kg	0.86	1.8	2.6	1.4	0.71	7.5	2.7	2.5	1.4	1	0.77	0.78	0.37
Pyridine	mg/kg	<0.22	<0.24	<0.22	<0.21	<0.21	<0.22	<0.21	<0.22	<0.23	<0.22	<0.21	<0.22	<0.23
Total SVOCs	mg/kg	7.13	16.98	22.23	11.24	6.58	59.3	19.51	21.46	10.16	7.8	4.59	4.75	1.96
Classic Chemistry														
Corrosivity (pH)	SU	7.6	7.5	7.8	7.6	7.7	7.7	7.5	7.3	7.5	7.6	7.9	7.7	8.2
Conductivity	umhos/cm	890	840	790	680	780	430	510	540	810	810	820	1000	910
Flashpoint	deg f	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150
Ignitability	none	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
Reactive Cyanide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Reactive Sulfide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
1. Samples in which detected concentrations of a 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.

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE #6D	MIXED PILE #1 (SW)	MIXED PILE #1 (NW)	MIXED PILE #1 (NE)	MIXED PILE #1 (SE)	SHORELINE STOCKPILE #8 (EAST)	SHORELINE STOCKPILE #8 (WEST)	MARINE 9A	MARINE 9B	MARINE 9C	MARINE 9D	MARINE 9E	MARINE 9F
	Laboratory Work Order	L1714154/L1714542	L1714964	L1714964/L1715298	L1714964/L1715298	L1714964/L1715298	L1715741/L1716175	L1715741/L1716175	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744
	Sampling Date	5/3/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/15/2017	5/15/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017
Total Metals	**Units**													
Antimony	mg/kg	59	< 2.1	18	3.5	52	2.8	< 2.5	20.6	20.6	27.7	13.4	13.2	11.4
Arsenic	mg/kg	170	4.5	140	38	170	24	26	98.4	102	149	51.4	61.6	106
Barium	mg/kg	110	44	91	51	82	28	29	82.2	106	104	80.3	69.2	71.4
Beryllium	mg/kg	< 0.26	< 0.21	0.61	0.27	< 0.21	< 0.22	< 0.25	< 0.241	< 0.27	< 0.269	< 0.244	< 0.236	< 0.239
Cadmium	mg/kg	3.6	< 0.42	1.8	1.4	2.3	< 0.45	< 0.51	0.819	5.21	2.54	2.8	3.48	2.24
Chromium	mg/kg	20	7.4	35	13	14	18	18	24.8	25.8	17	17.4	17.2	13.4
Lead	mg/kg	2800	75	1200	240	2100	120	150	1260	823	1160	479	483	447
Mercury	mg/kg	77.1	0.387	4.1	0.292	3.95	0.913	0.643	8.07	1.92	1.99	1.31	1.07	1.41
Nickel	mg/kg	10	5.5	23	10	12	11	9.3	10.6	9.29	11.6	6.68	7.26	6.88
Selenium	mg/kg	3.1	< 2.1	21	4	10	< 2.2	< 2.5	62.3	6.24	14.4	5.87	3.74	3.9
Silver	mg/kg	13	< 0.42	5.1	0.62	9.2	< 0.45	< 0.51	1.37	4.1	4.49	3.73	3.88	1.21
Thallium	mg/kg	< 2.6	< 2.1	< 2.1	< 2.2	< 2.1	< 2.2	< 2.5	< 2.41	< 2.7	< 2.69	< 2.44	< 2.36	< 2.39
Vanadium	mg/kg	22	8.9	60	58	42	18	19	20.8	26.3	19.6	19.4	18.6	18.4
Zinc	mg/kg	290	21	290	300	860	110	220	194	399	388	372	619	612
Metals by Toxicity Characteristic Leaching Procedure (TCLP)														
Arsenic, TCLP	mg/l	< 1.0	--	< 1.0	--	< 1.0	--	--	--	< 1.00	< 1.00	--	--	< 1.00
Lead, TCLP	mg/l	16	--	2.2	1	1.5	0.507	0.669	0.968	5.01	6.09	0.504	1.29	< 0.500
Mercury, TCLP	mg/l	< 0.0010	--	< 0.0010	--	--	--	--	0.1295	--	--	--	--	--
Selenium, TCLP	mg/l	--	--	< 0.50	--	--	--	--	< 0.500	--	--	--	--	--
Herbicides														
2,4,5-T	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
2,4,5-TP (Silvex)	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
2,4-D	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
2,4-DB	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
Dalapon	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
Dicamba	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
Dichlorprop	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
Dinoseb	mg/kg	<0.043	<0.037	<0.035	<0.038	<0.034	<0.039	<0.043	<2	<0.045	<0.045	<0.041	<0.039	<0.04
MCPA	mg/kg	<4.3	<3.7	<3.5	<3.8	<3.4	<3.9	<4.3	<200	<4.5	<4.5	<4.1	<3.9	<4
MCPP	mg/kg	<4.3	<3.7	<3.5	<3.8	<3.4	<3.9	<4.3	<200	<4.5	<4.5	<4.1	<3.9	<4
Total Herbicides	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides														
4,4'-DDD	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
4,4'-DDE	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
4,4'-DDT	mg/kg	0.0354	<0.0165	<0.0161	<0.0165	<0.0153	<0.0175	<0.0194	<0.361	0.0304	0.0208	<0.911	0.0178	1.28
Aldrin	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
alpha-BHC	mg/kg	<0.00436	<0.00366	<0.00359	<0.00368	<0.0034	<0.0039	<0.00431	<0.0802	<0.00453	<0.00451	<0.202	<0.00392	<0.00403
beta-BHC	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
Chlordane	mg/kg	<0.085	<0.0714	<0.07	<0.0717	<0.0663	<0.076	<0.0841	<1.56	<0.0883	<0.088	<3.95	<0.0764	<0.0787
delta-BHC	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
Dieldrin	mg/kg	0.00941	0.0692	<0.00538	<0.00552	<0.0051	<0.00585	<0.00647	<0.12	0.0116	0.0305	<0.304	<0.00588	0.0676
Endosulfan I	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
Endosulfan II	mg/kg	<0.0105	<0.00879	0.012	<0.00883	0.00935	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	0.062
Endosulfan sulfate	mg/kg	<0.00436	<0.00366	<0.00359	<0.00368	<0.0034	<0.0039	<0.00431	<0.0802	<0.00453	<0.00451	<0.202	<0.00392	<0.00403
Endrin	mg/kg	<0.00436	<0.00366	<0.00359	<0.00368	<0.0034	<0.0039	<0.00431	<0.0802	<0.00453	<0.00451	<0.202	<0.00392	<0.00403
Endrin ketone	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
Heptachlor	mg/kg	<0.00523	<0.00439	<0.0043	<0.00441	<0.00408	<0.00468	<0.00518	<0.0962	<0.00543	<0.00541	<0.243	<0.0047	<0.00484
Heptachlor epoxide	mg/kg	<0.0196	<0.0165	<0.0161	<0.0165	<0.0153	<0.0175	<0.0194	<0.361	<0.0204	<0.0203	<0.911	<0.0176	<0.0182
Hexachlorobenzene	mg/kg	<0.0105	<0.00879	<0.00861	<0.00883	<0.00816	<0.00935	<0.0104	<0.192	<0.0109	<0.0108	<0.486	<0.00941	<0.00968
Lindane	mg/kg	<0.00349	<0.00293	<0.00287	<0.00294	<0.00272	<0.00312	<0.00345	<0.0642	<0.00362	<0.00361	<0.162	<0.00314	<0.00323
Methoxychlor	mg/kg	<0.0196	0.0758	<0.0161	<0.0165	<0.0153	<0.0175	<0.0194	<0.361	<0.0204	<0.0203	<0.911	<0.0176	<0.0182
Toxaphene	mg/kg	<0.196	<0.165	<0.161	<0.165	<0.153	<0.175	<0.194	<3.61	<0.204	<0.203	<9.11	<0.176	<0.182
Total Pesticides	mg/kg	0.04481	0.145	0.012	ND	0.00935	ND	ND	ND	0.042	0.0513	ND	0.0178	1.4096
Polychlorinated Biphenyls														
Aroclor 1016	mg/kg	<0.0423	<0.177	<0.0341	<0.037	<0.0334	<0.0378	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Aroclor 1221	mg/kg	<0.0423	<0.177	<0.0341	<0.037	<0.0334	<0.0378	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Aroclor 1232	mg/kg	<0.0423	<0.177	<0.0341	<0.037	<0.0334	<0.0378	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Aroclor 1242	mg/kg	<0.0423	<0.177	<0.0341	<0.037	<0.0334	<0.0378	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Aroclor 1248	mg/kg	<0.0423	<0.177	<0.0341	<0.037	<0.0334	<0.0378	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Aroclor 1254	mg/kg	0.117	2.03	0.275	0.332	0.354	0.0642	<0.0426	0.462	0.191	0.55	0.369	0.514	2.52
Aroclor 1260	mg/kg	0.0972	0.915	0.132	0.152	0.216	0.048	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Aroclor 1262	mg/kg	<0.0423	<0.177	<0.0341	<0.037	<0.0334	<0.0378	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Aroclor 1268	mg/kg	0.0859	<0.177	<0.0341	<0.037	0.0838	<0.0378	<0.0426	<0.0384	<0.0451	<0.0435	<0.0397	<0.0385	<0.392
Total PCBs	mg/kg	0.3001	2.945	0.407	0.484	0.6538	0.1122	ND	0.462	0.191	0.55	0.369	0.514	2.52
Total Petroleum Hydrocarbons	mg/kg	154	96	485	381	426	194	356	337	442	252	173	173	306
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
1,1,1-Trichloroethane	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
1,1,2,2-Tetrachloroethane	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
1,1,2-Trichloroethane	mg/kg	<0.091	<0.00098	<0.052	<0.052	<0.037	<0.0014	<0.0011	<0.0011	<0.0012	<0.0014	<0.0012	<0.001	<0.0012
1,1-Dichloroethane	mg/kg	<0.091	<0.00098	<0.052	<0.052	<0.037	<0.0014	<0.0011	<0.0011	<0.0012	<0.0014	<0.0012	<0.001	<0.0012
1,1-Dichloroethene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
1,1-Dichloropropene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,2,3-Trichlorobenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,2,3-Trichloropropane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,2,4-Trichlorobenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,2,4-Trimethylbenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,2-Dibromo-3-chloropropane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,2-Dibromoethane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE #6D	MIXED PILE #1 (SW)	MIXED PILE #1 (NW)	MIXED PILE #1 (NE)	MIXED PILE #1 (SE)	SHORELINE STOCKPILE #8 (EAST)	SHORELINE STOCKPILE #8 (WEST)	MARINE 9A	MARINE 9B	MARINE 9C	MARINE 9D	MARINE 9E	MARINE 9F
	Laboratory Work Order	L1714154/L1714542	L1714964	L1714964/L1715298	L1714964/L1715298	L1714964/L1715298	L1715741/L1716175	L1715741/L1716175	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744
	Sampling Date	5/3/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/15/2017	5/15/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017
1,2-Dichlorobenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,2-Dichloroethane	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
1,2-Dichloropropane	mg/kg	<0.21	<0.0023	<0.12	<0.12	<0.087	<0.0032	<0.0027	<0.0026	<0.0029	<0.0034	<0.0029	<0.0024	<0.0027
1,3,5-Trimethylbenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,3-Dichlorobenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,3-Dichloropropane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,4-Dichlorobenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
1,4-Dioxane	mg/kg	<2.4	<0.026	<1.4	<1.4	<1	<0.036	<0.03	<0.03	<0.033	<0.038	<0.033	<0.028	<0.031
2,2-Dichloropropane	mg/kg	<0.3	<0.0032	<0.17	<0.17	<0.12	<0.0046	<0.0038	<0.0037	<0.0042	<0.0048	<0.0041	<0.0035	<0.0039
2-Butanone	mg/kg	<0.61	<0.0065	<0.35	<0.34	<0.25	<0.0091	<0.0076	<0.0074	<0.0083	<0.0096	<0.0082	<0.007	<0.0078
2-Hexanone	mg/kg	<0.61	<0.0065	<0.35	<0.34	<0.25	<0.0091	<0.0076	<0.0074	<0.0083	<0.0096	<0.0082	<0.007	<0.0078
4-Methyl-2-pentanone	mg/kg	<0.61	<0.0065	<0.35	<0.34	<0.25	<0.0091	<0.0076	<0.0074	<0.0083	<0.0096	<0.0082	<0.007	<0.0078
Acetone	mg/kg	<2.2	<0.023	<1.2	<1.2	<0.9	<0.033	<0.027	0.04	<0.03	<0.034	<0.03	0.053	<0.028
Benzene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	0.00096	0.00093	<0.00096	<0.00082	<0.0007	<0.00078
Bromobenzene	mg/kg	<0.3	<0.0032	<0.17	<0.17	<0.12	<0.0046	<0.0038	<0.0037	<0.0042	<0.0048	<0.0041	<0.0035	<0.0039
Bromochloromethane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Bromodichloromethane	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Bromoform	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Bromomethane	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	<0.0015	<0.0017	<0.0019	<0.0016	<0.0014	<0.0016
Carbon disulfide	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	0.012	<0.0033	0.0038	<0.0033	<0.0028	<0.0031
Carbon tetrachloride	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Chlorobenzene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Chloroethane	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	<0.0015	<0.0017	<0.0019	<0.0016	<0.0014	<0.0016
Chloroform	mg/kg	<0.091	<0.00098	<0.052	<0.052	<0.037	<0.0014	<0.0011	<0.0011	<0.0012	<0.0014	<0.0012	<0.001	<0.0012
Chloromethane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
cis-1,2-Dichloroethene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
cis-1,3-Dichloropropene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Dibromochloromethane	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Dibromomethane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Dichlorodifluoromethane	mg/kg	<0.61	<0.0065	<0.35	<0.34	<0.25	<0.0091	<0.0076	<0.0074	<0.0083	<0.0096	<0.0082	<0.007	<0.0078
Diethyl ether	mg/kg	<0.3	<0.0032	<0.17	<0.17	<0.12	<0.0046	<0.0038	<0.0037	<0.0042	<0.0048	<0.0041	<0.0035	<0.0039
Di-isopropyl ether	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Ethyl tertiary-butyl ether	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Ethylbenzene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Hexachlorobutadiene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Isopropylbenzene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Methyl tert-butyl ether	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	<0.0015	<0.0017	<0.0019	<0.0016	<0.0014	<0.0016
Methylene chloride	mg/kg	<0.61	<0.0065	<0.35	<0.34	<0.25	<0.0091	<0.0076	<0.0074	<0.0083	<0.0096	<0.0082	<0.007	<0.0078
Naphthalene	mg/kg	<0.24	<0.0026	<0.14	0.23	0.18	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
n-Butylbenzene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
n-Propylbenzene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
o-Chlorotoluene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
o-Xylene	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	<0.0015	<0.0017	<0.0019	<0.0016	<0.0014	<0.0016
p/m-Xylenes	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	0.0021	0.002	0.0021	<0.0016	<0.0014	<0.0016
p-Chlorotoluene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
p-Isopropyltoluene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	0.0035	<0.00082	<0.0007	<0.00078
sec-Butylbenzene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Styrene	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	<0.0015	<0.0017	<0.0019	<0.0016	<0.0014	<0.0016
Tert-amyl methyl ether	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Tert-Butylbenzene	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Tetrachloroethene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Tetrahydrofuran	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Toluene	mg/kg	<0.091	<0.00098	<0.052	<0.052	<0.037	<0.0014	<0.0011	0.0018	<0.0012	<0.0014	<0.0012	<0.001	<0.0012
trans-1,2-Dichloroethene	mg/kg	<0.091	<0.00098	<0.052	<0.052	<0.037	<0.0014	<0.0011	<0.0011	<0.0012	<0.0014	<0.0012	<0.001	<0.0012
trans-1,3-Dichloropropene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Trichloroethene	mg/kg	<0.061	<0.00065	<0.035	<0.034	<0.025	<0.00091	<0.00076	<0.00074	<0.00083	<0.00096	<0.00082	<0.0007	<0.00078
Trichlorofluoromethane	mg/kg	<0.24	<0.0026	<0.14	<0.14	<0.1	<0.0036	<0.003	<0.003	<0.0033	<0.0038	<0.0033	<0.0028	<0.0031
Vinyl chloride	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	<0.0015	<0.0017	<0.0019	<0.0016	<0.0014	<0.0016
Xylenes, Total	mg/kg	<0.12	<0.0013	<0.07	<0.069	<0.05	<0.0018	<0.0015	0.0021	0.002	0.0021	<0.0016	<0.0014	<0.0016
Total VOCs	mg/kg	ND	ND	ND	0.23	0.18	ND	ND	0.05896	0.00493	0.0115	ND	0.053	ND
Semi-Volatile Organic Compounds														
1,2,4-Trichlorobenzene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
1,2-Dichlorobenzene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
1,3-Dichlorobenzene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
1,4-Dichlorobenzene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.13	<0.11	<0.53	<0.11	<0.21	<0.12	<0.13	<0.12	<0.14	<0.14	<0.12	<0.12	<0.12
2,4-Dichlorophenol	mg/kg	<0.19	<0.16	<0.8	<0.17	<0.31	<0.18	<0.2	<0.18	<0.2	<0.2	<0.19	<0.18	<0.18
2,4-Dimethylphenol	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<1	<0.88	<4.2	<0.89	<1.7	<0.95	<1	<0.97	<1.1	<1.1	<1	<0.94	<0.96
2,4-Dinitrotoluene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2,6-Dinitrotoluene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2-Chloronaphthalene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2-Methylnaphthalene	mg/kg	<0.26	<0.22	<1.1	<0.22	<0.42	<0.24	<0.26	<0.24	0.57	<0.27	<0.25	<0.24	<0.24
2-Methylphenol	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
2-Nitrophenol	mg/kg	<0.47	<0.39	<1.9	<0.4	<0.75	<0.43	<0.47	<0.44	<0.49	<0.49	<0.45	<0.42	<0.43
3,3'-Dichlorobenzidine	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
3-Methylphenol/4-Methylphenol	mg/kg	<0.31	<0.26	<1.3	<0.27	<0.5	<0.28	<0.31	<0.29	<0.33	<0.32	<0.3	<0.28	<0.29
4-Bromophenyl phenyl ether	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
4-Chloroaniline	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
4-Nitrophenol	mg/kg	<0.3	<0.26	<1.2	<0.26	<0.48	<0.28	<0.3	<0.28	<0.32	<0.32	<0.29	<0.28	<0.28

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	SHORELINE STOCKPILE #6D	MIXED PILE #1 (SW)	MIXED PILE #1 (NW)	MIXED PILE #1 (NE)	MIXED PILE #1 (SE)	SHORELINE STOCKPILE #8 (EAST)	SHORELINE STOCKPILE #8 (WEST)	MARINE 9A	MARINE 9B	MARINE 9C	MARINE 9D	MARINE 9E	MARINE 9F
	Laboratory Work Order	L1714154/L1714542	L1714964	L1714964/L1715298	L1714964/L1715298	L1714964/L1715298	L1715741/L1716175	L1715741/L1716175	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744	L1720963/L1721744
	Sampling Date	5/3/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/15/2017	5/15/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017	6/21/2017
Acenaphthene	mg/kg	0.17	<0.14	1.2	0.29	0.4	<0.16	<0.17	<0.16	0.93	<0.18	<0.17	<0.16	<0.16
Acenaphthylene	mg/kg	<0.17	<0.14	<0.71	<0.15	0.33	<0.16	<0.17	<0.16	0.29	<0.18	<0.17	0.2	0.2
Acetophenone	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Aniline	mg/kg	<0.26	<0.22	<1.1	<0.22	<0.42	<0.24	<0.26	<0.24	<0.27	<0.27	<0.25	<0.24	<0.24
Anthracene	mg/kg	0.75	0.25	2.1	0.75	1.3	0.22	0.16	0.33	2	0.27	0.22	0.34	0.43
Azobenzene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Benzo(a)anthracene	mg/kg	1	0.82	5	1.9	3.7	0.4	0.33	0.56	3.5	0.82	0.62	0.97	1.2
Benzo(a)pyrene	mg/kg	0.8	0.55	4.5	1.6	3.4	0.34	0.32	0.47	2.9	0.82	0.57	0.96	1.1
Benzo(b)fluoranthene	mg/kg	0.99	1.1	5.9	2.1	4.8	0.43	0.38	0.66	3.6	0.98	0.77	1.1	1.4
Benzo(ghi)perylene	mg/kg	0.48	0.4	2.8	0.84	2.1	0.18	0.18	0.3	1.8	0.51	0.36	0.46	0.65
Benzo(k)fluoranthene	mg/kg	0.39	0.31	2.3	0.72	1.7	0.13	<0.13	0.21	1.4	0.31	0.24	0.43	0.57
Bis(2-chloroethoxy)methane	mg/kg	<0.23	<0.2	<0.95	<0.2	<0.37	<0.21	<0.24	<0.22	<0.24	<0.24	<0.22	<0.21	<0.22
Bis(2-chloroethyl)ether	mg/kg	<0.19	<0.16	<0.8	<0.17	<0.31	<0.18	<0.2	<0.18	<0.2	<0.2	<0.19	<0.18	<0.18
Bis(2-chloroisopropyl)ether	mg/kg	<0.26	<0.22	<1.1	<0.22	<0.42	<0.24	<0.26	<0.24	<0.27	<0.27	<0.25	<0.24	<0.24
Bis(2-ethylhexyl)phthalate	mg/kg	<0.22	0.91	<0.88	1.9	8.8	2.2	0.84	0.37	0.65	0.78	0.88	2.3	5.6
Butyl benzyl phthalate	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Chrysene	mg/kg	0.94	1	4.7	1.7	3.6	0.4	0.32	0.6	3.4	0.82	0.74	0.96	1.2
Dibenzo(a,h)anthracene	mg/kg	0.14	0.15	0.84	0.26	0.59	<0.12	<0.13	<0.12	0.53	0.14	<0.12	0.12	0.21
Dibenzofuran	mg/kg	<0.22	<0.18	<0.88	<0.18	0.36	<0.2	<0.22	<0.2	1	<0.22	<0.21	<0.2	<0.2
Diethyl phthalate	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Dimethylphthalate	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Di-n-butylphthalate	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	2.3	2	3.1	<0.21	1.2	<0.2
Di-n-octyl phthalate	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Fluoranthene	mg/kg	2.6	1.5	12	3.9	7.3	0.66	0.59	1.1	8.2	1.6	1.2	1.8	2.3
Fluorene	mg/kg	0.28	<0.18	1	0.28	0.46	<0.2	<0.22	<0.2	0.83	<0.22	<0.21	<0.2	<0.2
Hexachlorobenzene	mg/kg	<0.13	<0.11	<0.53	<0.11	<0.21	<0.12	<0.13	<0.12	<0.14	<0.14	<0.12	<0.12	<0.12
Hexachlorobutadiene	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Hexachloroethane	mg/kg	<0.17	<0.14	<0.71	<0.15	<0.28	<0.16	<0.17	<0.16	<0.18	<0.18	<0.17	<0.16	<0.16
Indeno(1,2,3-cd)pyrene	mg/kg	0.52	0.44	3.2	1	2.4	0.22	0.21	0.33	2.1	0.54	0.39	0.5	0.74
Isophorone	mg/kg	<0.19	<0.16	<0.8	<0.17	<0.31	<0.18	<0.2	<0.18	<0.2	<0.2	<0.19	<0.18	<0.18
Naphthalene	mg/kg	<0.22	<0.18	<0.88	0.21	0.73	<0.2	<0.22	<0.2	0.67	<0.22	<0.21	0.2	<0.2
Nitrobenzene	mg/kg	<0.19	<0.16	<0.8	<0.17	<0.31	<0.18	<0.2	<0.18	<0.2	<0.2	<0.19	<0.18	<0.18
Pentachlorophenol	mg/kg	<0.43	<0.36	<1.8	<0.37	<0.69	<0.39	<0.44	<0.4	<0.46	<0.45	<0.42	<0.39	<0.4
Phenanthrene	mg/kg	2.4	1.2	8	2.6	4.3	0.52	0.41	0.78	9.5	0.78	0.67	1.1	1.4
Phenol	mg/kg	<0.22	<0.18	<0.88	<0.18	<0.35	<0.2	<0.22	<0.2	<0.23	<0.22	<0.21	<0.2	<0.2
Pyrene	mg/kg	2	1.2	9.5	3.2	6.2	0.65	0.57	0.99	7.8	1.4	1.1	1.6	1.9
Pyridine	mg/kg	<0.23	<0.2	<0.95	<0.2	<0.37	<0.21	<0.24	<0.22	<0.24	<0.24	<0.22	<0.21	<0.22
Total SVOCs	mg/kg	13.46	9.83	63.04	23.25	52.47	6.35	4.31	9	53.67	12.87	7.76	14.24	18.9
Classic Chemistry														
Corrosivity (pH)	SU	7.8	7.3	7.8	7.6	7.6	7.3	7.7	9.7	6.4	6.6	6.7	5.8	7
Conductivity	umhos/cm	1000	1400	470	460	440	790	620	770	460	830	530	580	650
Flashpoint	deg f	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150
Ignitability	none	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
Reactive Cyanide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Reactive Sulfide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
1. Samples in which detected concentrations of a 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.

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	MARINE 9G	MARINE 9H	MARINE 10 A	MARINE 10 B	MARINE 10 C	MARINE 10 D	MARINE 10 E	MARINE 10 F	MARINE 10 G	MARINE 10 H	OF-3
	Laboratory Work Order	L1720963/L1721744	L1720963/L1721744	L1722222/L1722631	L1722222/L1722631	L1722222/L1722631	L1722222	L1722222	L1722222/L1722631	L1722222	L1722222	L1723679/L1724122
	Sampling Date	6/21/2017	6/21/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	7/12/2017
Total Metals	**Units**											
Antimony	mg/kg	15.4	22	3.98	4.42	15	< 2.45	< 2.70	11	< 2.54	< 2.29	5.19
Arsenic	mg/kg	77.2	84	40	41.5	202	25.5	9.34	166	20.6	44.5	153
Barium	mg/kg	72.8	94.8	43.5	35	50	16.5	19.8	34.6	21.4	17.7	48.2
Beryllium	mg/kg	0.292	< 0.237	< 0.211	< 0.212	< 0.235	< 0.245	< 0.270	< 0.235	< 0.254	< 0.229	< 0.252
Cadmium	mg/kg	4.05	1.37	0.566	< 0.425	< 0.469	< 0.490	< 0.541	< 0.470	< 0.507	< 0.457	3.19
Chromium	mg/kg	16.8	17.8	17.1	13	19.9	12.6	19.7	23.4	20.4	23.8	25.6
Lead	mg/kg	890	1560	202	140	373	32.1	6.39	222	15.6	27.5	459
Mercury	mg/kg	1.77	16.1	1.07	1.05	3.01	0.296	< 0.090	1.92	0.793	0.11	2.86
Nickel	mg/kg	12	8.4	10.6	7.08	10.6	8.13	12.8	28.9	11.4	23.9	14.5
Selenium	mg/kg	9.92	77.2	3.1	3.33	6.37	< 2.45	< 2.70	3.52	< 2.54	< 2.29	10.9
Silver	mg/kg	2.4	1.81	< 0.422	0.573	0.587	< 0.490	< 0.541	1.45	< 0.507	0.563	2.24
Thallium	mg/kg	< 2.21	< 2.37	< 2.11	< 2.12	< 2.35	< 2.45	< 2.70	< 2.35	< 2.54	< 2.29	< 2.52
Vanadium	mg/kg	22.3	23.4	27.9	14.3	28.6	15.1	22	20.4	22.9	16.2	41.8
Zinc	mg/kg	1110	416	235	118	120	27.4	33.6	92.6	69.5	3120	443
Metals by Toxicity Characteristic Leaching Procedure (TCLP)												
Arsenic, TCLP	mg/l	--	--	--	--	< 1.0	--	--	3.87	--	--	< 1.00
Lead, TCLP	mg/l	1.24	6.07	< 0.50	< 0.50	< 0.50	--	--	3.15	--	--	1.31
Mercury, TCLP	mg/l	--	< 0.0010	--	--	--	--	--	--	--	--	--
Selenium, TCLP	mg/l	--	< 0.500	--	--	--	--	--	--	--	--	--
Herbicides												
2,4,5-T	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
2,4,5-TP (Silvex)	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
2,4-D	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
2,4-DB	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
Dalapon	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
Dicamba	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
Dichlorprop	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
Dinoseb	mg/kg	<0.038	<2	<0.35	<0.36	<0.39	<0.4	<0.44	<0.4	<0.42	<0.39	<0.86
MCPA	mg/kg	<3.8	<200	<35	<36	<39	<40	<44	<40	<42	<39	<86
MCPP	mg/kg	<3.8	<200	<35	<36	<39	<40	<44	<40	<42	<39	<86
Total Herbicides	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides												
4,4'-DDD	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
4,4'-DDE	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
4,4'-DDT	mg/kg	0.0619	0.0454	<0.0159	<0.0157	<0.0171	<0.0174	<0.0197	<0.0174	<0.0185	0.0235	<0.0188
Aldrin	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
alpha-BHC	mg/kg	<0.00386	<0.0039	<0.00354	<0.00349	<0.0038	<0.00387	<0.00437	<0.00388	<0.0041	<0.00384	<0.00418
beta-BHC	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
Chlordane	mg/kg	<0.0752	<0.0761	<0.0691	<0.068	<0.074	<0.0755	<0.0852	<0.0756	<0.08	<0.075	<0.0814
delta-BHC	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
Dieldrin	mg/kg	0.0215	0.0177	<0.00531	0.00726	<0.00569	<0.00581	<0.00655	<0.00581	<0.00615	0.0106	0.00645
Endosulfan I	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
Endosulfan II	mg/kg	0.0244	0.0179	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
Endosulfan sulfate	mg/kg	<0.00386	<0.0039	<0.00354	<0.00349	<0.0038	<0.00387	<0.00437	<0.00388	<0.0041	<0.00384	<0.00418
Endrin	mg/kg	<0.00386	<0.0039	<0.00354	<0.00349	<0.0038	<0.00387	<0.00437	<0.00388	<0.0041	<0.00384	<0.00418
Endrin ketone	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
Heptachlor	mg/kg	<0.00463	<0.00468	<0.00425	<0.00419	<0.00455	<0.00465	<0.00524	<0.00465	<0.00492	<0.00461	<0.00501
Heptachlor epoxide	mg/kg	<0.0174	<0.0176	<0.0159	<0.0157	<0.0171	<0.0174	<0.0197	<0.0174	<0.0185	<0.0173	<0.0188
Hexachlorobenzene	mg/kg	<0.00926	<0.00936	<0.0085	<0.00837	<0.00911	<0.0093	<0.0105	<0.0093	<0.00985	<0.00923	<0.01
Lindane	mg/kg	<0.00309	<0.00312	<0.00283	<0.00279	<0.00304	<0.0031	<0.0035	<0.0031	<0.00328	<0.00308	<0.00334
Methoxychlor	mg/kg	<0.0174	<0.0176	<0.0159	<0.0157	<0.0171	<0.0174	<0.0197	<0.0174	<0.0185	<0.0173	<0.0188
Toxaphene	mg/kg	<0.174	<0.176	<0.159	<0.157	<0.171	<0.174	<0.197	<0.174	<0.185	<0.173	<0.188
Total Pesticides	mg/kg	0.1078	0.081	ND	0.00726	ND	ND	ND	ND	ND	0.0341	0.00645
Polychlorinated Biphenyls												
Aroclor 1016	mg/kg	<0.756	<0.191	<0.0345	<0.0722	<0.0376	<0.0389	<0.0445	<0.0395	<0.0428	<0.0378	<0.0416
Aroclor 1221	mg/kg	<0.756	<0.191	<0.0345	<0.0722	<0.0376	<0.0389	<0.0445	<0.0395	<0.0428	<0.0378	<0.0416
Aroclor 1232	mg/kg	<0.756	<0.191	<0.0345	<0.0722	<0.0376	<0.0389	<0.0445	<0.0395	<0.0428	<0.0378	<0.0416
Aroclor 1242	mg/kg	<0.756	<0.191	<0.0345	<0.0722	<0.0376	<0.0389	<0.0445	<0.0395	<0.0428	<0.0378	<0.0416
Aroclor 1248	mg/kg	<0.756	<0.191	<0.0345	<0.0722	<0.0376	<0.0389	<0.0445	<0.0395	<0.0428	<0.0378	<0.0416
Aroclor 1254	mg/kg	6.24	1.61	0.0973	0.135	0.106	0.137	0.229	0.0858	0.0722	0.215	0.372
Aroclor 1260	mg/kg	<0.756	<0.191	0.112	0.0992	0.0417	0.052	0.0583	0.1	<0.0428	0.0736	0.0964
Aroclor 1262	mg/kg	<0.756	<0.191	<0.0345	<0.0722	<0.0376	<0.0389	<0.0445	<0.0395	<0.0428	<0.0378	<0.0416
Aroclor 1268	mg/kg	<0.756	<0.191	0.0537	0.218	<0.0376	<0.0389	<0.0445	0.0688	<0.0428	<0.0378	<0.0416
Total PCBs	mg/kg	6.24	1.61	0.263	0.4522	0.1477	0.189	0.2873	0.2546	0.0722	0.2886	0.4684
Total Petroleum Hydrocarbons	mg/kg	427	412	435	702	334	112	<43.7	76.9	<42.2	184	<42.7
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
1,1,1-Trichloroethane	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
1,1,2,2-Tetrachloroethane	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
1,1,2-Trichloroethane	mg/kg	<0.0013	<0.079	<0.0019	<0.0011	<0.0017	<0.0013	<0.0015	<0.0017	<0.0015	<0.0013	<0.0011
1,1-Dichloroethane	mg/kg	<0.0013	<0.079	<0.0019	<0.0011	<0.0017	<0.0013	<0.0015	<0.0017	<0.0015	<0.0013	<0.0011
1,1-Dichloroethene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
1,1-Dichloropropene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,2,3-Trichlorobenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,2,3-Trichloropropane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,2,4-Trichlorobenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,2,4-Trimethylbenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,2-Dibromo-3-chloropropane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,2-Dibromoethane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	MARINE 9G	MARINE 9H	MARINE 10 A	MARINE 10 B	MARINE 10 C	MARINE 10 D	MARINE 10 E	MARINE 10 F	MARINE 10 G	MARINE 10 H	OF-3
	Laboratory Work Order	L1720963/L1721744	L1720963/L1721744	L1722222/L1722631	L1722222/L1722631	L1722222/L1722631	L1722222	L1722222	L1722222/L1722631	L1722222	L1722222	L1723679/L1724122
	Sampling Date	6/21/2017	6/21/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	7/12/2017
1,2-Dichlorobenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,2-Dichloroethane	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
1,2-Dichloropropane	mg/kg	<0.0031	<0.18	<0.0044	<0.0026	<0.004	<0.003	<0.0036	<0.0039	<0.0035	<0.003	<0.0025
1,3,5-Trimethylbenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,3-Dichlorobenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,3-Dichloropropane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,4-Dichlorobenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
1,4-Dioxane	mg/kg	<0.036	<2.1	<0.05	<0.03	<0.046	<0.034	<0.041	<0.044	<0.04	<0.034	<0.029
2,2-Dichloropropane	mg/kg	<0.0045	<0.26	<0.0063	<0.0038	<0.0057	<0.0043	<0.0052	<0.0056	<0.005	<0.0043	<0.0036
2-Butanone	mg/kg	<0.0089	<0.53	<0.012	<0.0076	<0.011	0.017	0.011	<0.011	<0.0099	<0.0086	<0.0072
2-Hexanone	mg/kg	<0.0089	<0.53	<0.012	<0.0076	<0.011	<0.0086	<0.01	<0.011	<0.0099	<0.0086	<0.0072
4-Methyl-2-pentanone	mg/kg	<0.0089	<0.53	<0.012	<0.0076	<0.011	<0.0086	<0.01	<0.011	<0.0099	<0.0086	<0.0072
Acetone	mg/kg	<0.032	<1.9	<0.045	<0.027	<0.041	0.073	0.047	<0.04	0.04	0.17	0.027
Benzene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Bromobenzene	mg/kg	<0.0045	<0.26	<0.0063	<0.0038	<0.0057	<0.0043	<0.0052	<0.0056	<0.005	<0.0043	<0.0036
Bromochloromethane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Bromodichloromethane	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Bromoform	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Bromomethane	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	<0.002	<0.0017	<0.0014
Carbon disulfide	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	0.0053	0.017	0.052	0.0051	0.021	0.0046
Carbon tetrachloride	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Chlorobenzene	mg/kg	<0.00089	<0.053	0.0062	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Chloroethane	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	<0.002	<0.0017	<0.0014
Chloroform	mg/kg	<0.0013	<0.079	<0.0019	<0.0011	<0.0017	<0.0013	<0.0015	<0.0017	<0.0015	<0.0013	<0.0011
Chloromethane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
cis-1,2-Dichloroethene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
cis-1,3-Dichloropropene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Dibromochloromethane	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Dibromomethane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Dichlorodifluoromethane	mg/kg	<0.0089	<0.53	<0.012	<0.0076	<0.011	<0.0086	<0.01	<0.011	<0.0099	<0.0086	<0.0072
Diethyl ether	mg/kg	<0.0045	<0.26	<0.0063	<0.0038	<0.0057	<0.0043	<0.0052	<0.0056	<0.005	<0.0043	<0.0036
Di-isopropyl ether	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Ethyl tertiary-butyl ether	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Ethylbenzene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	0.0071	<0.00086	<0.00072
Hexachlorobutadiene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Isopropylbenzene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Methyl tert-butyl ether	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	<0.002	<0.0017	<0.0014
Methylene chloride	mg/kg	<0.0089	<0.53	<0.012	<0.0076	<0.011	<0.0086	<0.01	<0.011	<0.0099	<0.0086	<0.0072
Naphthalene	mg/kg	<0.0036	5.8	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
n-Butylbenzene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
n-Propylbenzene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
o-Chlorotoluene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
o-Xylene	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	0.018	<0.0017	<0.0014
p/m-Xylenes	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	0.029	0.0018	<0.0014
p-Chlorotoluene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
p-Isopropyltoluene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	0.0016	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
sec-Butylbenzene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Styrene	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	<0.002	<0.0017	<0.0014
Tert-amyl methyl ether	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Tert-Butylbenzene	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Tetrachloroethene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Tetrahydrofuran	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Toluene	mg/kg	<0.0013	<0.079	<0.0019	<0.0011	<0.0017	<0.0013	<0.0015	<0.0017	<0.0015	<0.0013	<0.0011
trans-1,2-Dichloroethene	mg/kg	<0.0013	<0.079	<0.0019	<0.0011	<0.0017	<0.0013	<0.0015	<0.0017	<0.0015	<0.0013	<0.0011
trans-1,3-Dichloropropene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Trichloroethene	mg/kg	<0.00089	<0.053	<0.0012	<0.00076	<0.0011	<0.00086	<0.001	<0.0011	<0.00099	<0.00086	<0.00072
Trichlorofluoromethane	mg/kg	<0.0036	<0.21	<0.005	<0.003	<0.0046	<0.0034	<0.0041	<0.0044	<0.004	<0.0034	<0.0029
Vinyl chloride	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	<0.002	<0.0017	<0.0014
Xylenes, Total	mg/kg	<0.0018	<0.1	<0.0025	<0.0015	<0.0023	<0.0017	<0.0021	<0.0022	0.047	0.0018	<0.0014
Total VOCs	mg/kg	ND	5.8	0.0062	ND	ND	0.0969	0.075	0.052	0.1462	0.1946	0.0316
Semi-Volatile Organic Compounds												
1,2,4-Trichlorobenzene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
1,2-Dichlorobenzene	mg/kg	<0.19	<0.2	1.2	0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
1,3-Dichlorobenzene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
1,4-Dichlorobenzene	mg/kg	<0.19	<0.2	0.23	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2,4,5-Trichlorophenol	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2,4,6-Trichlorophenol	mg/kg	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<0.13
2,4-Dichlorophenol	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.17	<0.18	<0.2	<0.18	<0.19	<0.17	<0.19
2,4-Dimethylphenol	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2,4-Dinitrophenol	mg/kg	<0.92	<0.95	<0.85	<0.87	<0.93	<0.97	<1.1	<0.93	<1	<0.92	<1
2,4-Dinitrotoluene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2,6-Dinitrotoluene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2-Chloronaphthalene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2-Chlorophenol	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2-Methylnaphthalene	mg/kg	<0.23	<0.24	<0.21	<0.22	0.28	<0.24	0.31	<0.23	<0.26	0.44	<0.26
2-Methylphenol	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
2-Nitrophenol	mg/kg	<0.42	<0.43	<0.38	<0.39	<0.42	<0.44	<0.48	<0.42	<0.46	<0.41	<0.46
3,3'-Dichlorobenzidine	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
3-Methylphenol/4-Methylphenol	mg/kg	<0.28	<0.28	<0.26	<0.26	<0.28	<0.29	<0.32	<0.28	<0.31	<0.28	<0.31
4-Bromophenyl phenyl ether	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
4-Chloroaniline	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
4-Nitrophenol	mg/kg	<0.27	<0.28	<0.25	<0.25	<0.27	<0.28	<0.31	<0.27	<0.3	<0.27	<0.3

TABLE 5
MARINE STOCKPILE SOIL ANALYTICAL RESULTS
Wynn Boston Harboer
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID	MARINE 9G	MARINE 9H	MARINE 10 A	MARINE 10 B	MARINE 10 C	MARINE 10 D	MARINE 10 E	MARINE 10 F	MARINE 10 G	MARINE 10 H	OF-3
	Laboratory Work Order	L1720963/L1721744	L1720963/L1721744	L1722222/L1722631	L1722222/L1722631	L1722222/L1722631	L1722222	L1722222	L1722222/L1722631	L1722222	L1722222	L1723679/L1724122
	Sampling Date	6/21/2017	6/21/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	6/29/2017	7/12/2017
Acenaphthene	mg/kg	<0.15	0.18	0.26	0.32	1.2	0.22	0.53	<0.16	<0.17	0.95	<0.17
Acenaphthylene	mg/kg	0.2	0.21	<0.14	0.16	<0.16	<0.16	<0.18	<0.16	<0.17	0.15	<0.17
Acetophenone	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Aniline	mg/kg	<0.23	<0.24	<0.21	<0.22	<0.23	<0.24	<0.27	<0.23	<0.26	<0.23	<0.26
Anthracene	mg/kg	0.34	0.59	0.54	0.85	1.4	0.4	2.1	0.32	<0.13	1.6	<0.13
Azobenzene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Benzo(a)anthracene	mg/kg	0.96	1.5	1	1.4	2.4	0.78	1.8	0.86	0.2	2.4	0.19
Benzo(a)pyrene	mg/kg	0.95	1.4	0.83	1.2	2	0.62	1.3	0.67	<0.17	2	<0.17
Benzo(b)fluoranthene	mg/kg	1.2	2	1.1	1.6	2.7	0.84	1.6	0.96	0.22	2.7	0.19
Benzo(ghi)perylene	mg/kg	0.51	0.85	0.55	0.74	1.4	0.36	0.7	0.43	<0.17	1.2	<0.17
Benzo(k)fluoranthene	mg/kg	0.45	0.69	0.41	0.51	0.94	0.28	0.56	0.3	<0.13	0.8	<0.13
Bis(2-chloroethoxy)methane	mg/kg	<0.21	<0.21	<0.19	<0.2	<0.21	<0.22	<0.24	<0.21	<0.23	<0.21	<0.23
Bis(2-chloroethyl)ether	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.17	<0.18	<0.2	<0.18	<0.19	<0.17	<0.19
Bis(2-chloroisopropyl)ether	mg/kg	<0.23	<0.24	<0.21	<0.22	<0.23	<0.24	<0.27	<0.23	<0.26	<0.23	<0.26
Bis(2-ethylhexyl)phthalate	mg/kg	4.7	2.9	25	6.5	3.9	2.6	0.25	0.35	<0.21	0.76	0.84
Butyl benzyl phthalate	mg/kg	<0.19	<0.2	0.76	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Chrysene	mg/kg	1.1	1.6	0.98	1.4	2.5	0.8	1.5	0.9	0.22	2.5	0.18
Dibenzo(a,h)anthracene	mg/kg	0.15	0.24	0.14	0.2	0.33	<0.12	0.2	0.12	<0.13	0.34	<0.13
Dibenzofuran	mg/kg	<0.19	<0.2	0.19	0.28	0.57	<0.2	0.66	<0.19	<0.21	0.58	<0.22
Diethyl phthalate	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Dimethylphthalate	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Di-n-butylphthalate	mg/kg	0.89	1.8	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Di-n-octyl phthalate	mg/kg	<0.19	<0.2	1.2	0.47	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Fluoranthene	mg/kg	1.9	2.8	2.6	3.7	7.4	2.1	5.2	1.8	0.57	6.9	0.43
Fluorene	mg/kg	<0.19	<0.2	0.28	0.42	0.84	0.21	1	<0.19	<0.21	1	<0.22
Hexachlorobenzene	mg/kg	<0.12	<0.12	<0.11	<0.11	<0.12	<0.12	<0.13	<0.12	<0.13	<0.12	<0.13
Hexachlorobutadiene	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Hexachloroethane	mg/kg	<0.15	<0.16	<0.14	<0.14	<0.16	<0.16	<0.18	<0.16	<0.17	<0.15	<0.17
Indeno(1,2,3-cd)pyrene	mg/kg	0.58	0.92	0.56	0.79	1.4	0.4	0.78	0.46	<0.17	1.3	<0.17
Isophorone	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.17	<0.18	<0.2	<0.18	<0.19	<0.17	<0.19
Naphthalene	mg/kg	0.22	0.2	0.28	0.25	0.4	<0.2	0.23	<0.19	<0.21	0.4	<0.22
Nitrobenzene	mg/kg	<0.17	<0.18	<0.16	<0.16	<0.17	<0.18	<0.2	<0.18	<0.19	<0.17	<0.19
Pentachlorophenol	mg/kg	<0.38	<0.4	<0.35	<0.36	<0.39	<0.41	<0.44	<0.39	<0.42	<0.38	<0.43
Phenanthrene	mg/kg	1.1	1.8	1.9	2.5	6.5	1.6	6	1.5	0.51	5.9	0.34
Phenol	mg/kg	<0.19	<0.2	<0.18	<0.18	<0.19	<0.2	<0.22	<0.19	<0.21	<0.19	<0.22
Pyrene	mg/kg	1.6	2.7	2.2	2.8	5.8	1.6	4	1.3	0.51	5.5	0.38
Pyridine	mg/kg	<0.21	<0.21	<0.19	<0.2	<0.21	<0.22	<0.24	<0.21	<0.23	<0.21	<0.23
Total SVOCs	mg/kg	16.85	22.38	42.21	26.27	41.96	12.81	28.72	9.97	2.23	37.42	2.55
Classic Chemistry												
Corrosivity (pH)	SU	6.9	6.9	7.2	7.3	7	7.3	7.4	4.8	5.1	6.8	7.1
Conductivity	umhos/cm	710	590	1700	1300	1600	1400	960	1500	1800	2400	1100
Flashpoint	deg f	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150
Ignitability	none	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
Reactive Cyanide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Reactive Sulfide	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Notes:
1. Samples in which detected concentrations of a 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.

TABLE 6
MARINE STOCKPILE DELINEATION RESULTS
Wynn Boston Harbor
1 Horizon Way
Everett, Massachusetts

Analytle	Sample ID Laboratory Work Order Sampling Date	SHORELINE STOCKPILE#6A/B L1714964 5/9/2017	SHORELINE STOCKPILE#6B/C L1714964 5/9/2017	MARINE #9 A/B L1722430 6/30/2017	MARINE #9 C/D1 L1722430 6/30/2017	MARINE #9 C/D2 L1722430 6/30/2017	MARINE #9 G/H1 L1722430 6/30/2017	MARINE #9 G/H2 L1722430 6/30/2017
Metals by Toxicity Characteristic Leaching Procedure (TCLP)								
Lead, TCLP	mg/l	12	6.5	2.86	6.52	7.07	0.785	1.32

TABLE 7
LAGOON SLUDGE ANALTYICAL RESULTS
Wynn Everett
1 Horizon Way
Everett, Massachusetts

Analyte	Maximum Concentration Across All Samples	Sample ID Laboratory Work Order Sample Date	LAGOON NORTH L1718045/L1718792 6/1/2017	LAGOON SOUTH L1718045/L1718792 6/1/2017	IRON SLUDGE LAGOON-1 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-2 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-3 L1722002/L1722611 6/28/2017
Total Metals		***Units***					
Antimony	7.83	mg/kg	< 4.57	< 6.45	<5.68	7.83	5.17
Arsenic	128	mg/kg	72.8	128	98.9	118	63.7
Barium	88.1	mg/kg	43.6	69.2	76.3	88.1	81.8
Beryllium	0.532	mg/kg	< 0.457	< 0.645	<0.568	0.532	<0.425
Cadmium	2.38	mg/kg	< 0.914	1.64	2.38	1.59	1.28
Chromium	39.3	mg/kg	21.5	24	32.6	39.3	26
Lead	367	mg/kg	135	313	176	367	178
Mercury	8.14	mg/kg	1.42	6.46	1.91	8.14	1.71
Nickel	19.1	mg/kg	9.65	15.5	19.1	17.8	13.7
Selenium	12.3	mg/kg	< 4.57	8.41	<5.68	12.3	<4.25
Silver	1.61	mg/kg	< 0.914	< 1.29	1.61	<1.02	<0.85
Thallium	ND	mg/kg	< 4.57	< 6.45	<5.68	<5.11	<4.25
Vanadium	46.8	mg/kg	17.5	24.8	46.8	35.6	31.5
Zinc	394	mg/kg	228	394	357	290	227
Metals by Toxicity Characteristic Leaching Procedure (TCLP)							
Arsenic, TCLP	ND	mg/l	--	< 1.00	--	<1.00	--
Lead, TCLP	ND	mg/l	< 0.500	< 0.500	<0.500	<0.500	<0.500
Mercury, TCLP	ND	mg/l	--	< 0.0010	--	<0.0010	--
Herbicides							
2,4,5-T	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
2,4,5-TP (Silvex)	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
2,4-D	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
2,4-DB	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
Dalapon	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
Dicamba	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
Dichlorprop	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
Dinoseb	ND	mg/kg	<0.078	<0.11	<0.094	<0.086	<0.071
MCPA	ND	mg/kg	<7.8	<11	<9.4	<8.6	<7.1
MCPP	ND	mg/kg	<7.8	<11	<9.4	<8.6	<7.1
Total Herbicides	ND	mg/kg	ND	ND	ND	ND	ND
Pesticides							
4,4'-DDD	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
4,4'-DDE	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
4,4'-DDT	ND	mg/kg	<0.0352	<0.0484	<0.126	<0.106	<0.0945
Aldrin	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
alpha-BHC	ND	mg/kg	<0.00782	<0.0108	<0.0279	<0.0237	<0.021
beta-BHC	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
Chlordane	ND	mg/kg	<0.152	<0.21	<0.544	<0.461	<0.41
delta-BHC	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
Dieldrin	ND	mg/kg	<0.0117	<0.0161	<0.0418	<0.0355	<0.0315
Endosulfan I	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
Endosulfan II	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504

TABLE 7
LAGOON SLUDGE ANALTYICAL RESULTS
Wynn Everett
1 Horizon Way
Everett, Massachusetts

Analyte	Maximum Concentration Across All Samples	Sample ID Laboratory Work Order Sample Date	LAGOON NORTH L1718045/L1718792 6/1/2017	LAGOON SOUTH L1718045/L1718792 6/1/2017	IRON SLUDGE LAGOON-1 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-2 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-3 L1722002/L1722611 6/28/2017
Endosulfan sulfate	ND	mg/kg	<0.00782	<0.0108	<0.0279	<0.0237	<0.021
Endrin	ND	mg/kg	<0.00782	<0.0108	<0.0279	<0.0237	<0.021
Endrin ketone	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
Heptachlor	ND	mg/kg	<0.00938	<0.0129	<0.0335	<0.0284	<0.0252
Heptachlor epoxide	ND	mg/kg	<0.0352	<0.0484	<0.126	<0.106	<0.0945
Hexachlorobenzene	ND	mg/kg	<0.0188	<0.0258	<0.067	<0.0568	<0.0504
Lindane	ND	mg/kg	<0.00626	<0.00861	<0.0223	<0.0189	<0.0168
Methoxychlor	ND	mg/kg	<0.0352	<0.0484	<0.126	<0.106	<0.0945
Toxaphene	ND	mg/kg	<0.352	<0.484	<1.26	<1.06	<0.945
Total Pesticides	ND	mg/kg	ND	ND	ND	ND	ND
Polychlorinated Biphenyls							
Aroclor 1016	ND	mg/kg	<0.0758	<0.109	<0.269	<0.227	<0.206
Aroclor 1221	ND	mg/kg	<0.0758	<0.109	<0.269	<0.227	<0.206
Aroclor 1232	ND	mg/kg	<0.0758	<0.109	<0.269	<0.227	<0.206
Aroclor 1242	ND	mg/kg	<0.0758	<0.109	<0.269	<0.227	<0.206
Aroclor 1248	ND	mg/kg	<0.0758	<0.109	<0.269	<0.227	<0.206
Aroclor 1254	1.6	mg/kg	0.164	1.6	<0.269	<0.227	0.429
Aroclor 1260	1.42	mg/kg	0.0832	<0.109	1.42	<0.227	<0.206
Aroclor 1262	ND	mg/kg	<0.0758	<0.109	<0.269	<0.227	<0.206
Aroclor 1268	ND	mg/kg	<0.0758	<0.109	<0.269	<0.227	<0.206
Total PCBs	1.6	mg/kg	0.2472	1.6	1.42	ND	0.429
Total Petroleum Hydrocarbons	326	mg/kg	<78.2	<108	326	290	263
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
1,1,1-Trichloroethane	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
1,1,2,2-Tetrachloroethane	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
1,1,2-Trichloroethane	ND	mg/kg	<0.0018	<0.002	<0.0025	<0.0022	<0.002
1,1-Dichloroethane	ND	mg/kg	<0.0018	<0.002	<0.0025	<0.0022	<0.002
1,1-Dichloroethene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
1,1-Dichloropropene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2,3-Trichlorobenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2,3-Trichloropropane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2,4-Trichlorobenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2,4-Trimethylbenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2-Dibromo-3-chloropropane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2-Dibromoethane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2-Dichlorobenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,2-Dichloroethane	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
1,2-Dichloropropane	ND	mg/kg	<0.0041	<0.0046	<0.0058	<0.0052	<0.0046
1,3,5-Trimethylbenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,3-Dichlorobenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,3-Dichloropropane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,4-Dichlorobenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
1,4-Dioxane	ND	mg/kg	<0.047	<0.052	<0.067	<0.06	<0.052
2,2-Dichloropropane	ND	mg/kg	<0.0059	<0.0066	<0.0084	<0.0075	<0.0065

TABLE 7
LAGOON SLUDGE ANALTYICAL RESULTS
Wynn Everett
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Analyte	Maximum Concentration Across All Samples	Sample ID Laboratory Work Order Sample Date	LAGOON NORTH L1718045/L1718792 6/1/2017	LAGOON SOUTH L1718045/L1718792 6/1/2017	IRON SLUDGE LAGOON-1 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-2 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-3 L1722002/L1722611 6/28/2017
2-Butanone	ND	mg/kg	<0.012	<0.013	<0.017	<0.015	<0.013
2-Hexanone	ND	mg/kg	<0.012	<0.013	<0.017	<0.015	<0.013
4-Methyl-2-pentanone	ND	mg/kg	<0.012	<0.013	<0.017	<0.015	<0.013
Acetone	0.056	mg/kg	<0.042	<0.047	<0.06	<0.054	0.056
Benzene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Bromobenzene	ND	mg/kg	<0.0059	<0.0066	<0.0084	<0.0075	<0.0065
Bromochloromethane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Bromodichloromethane	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Bromoform	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Bromomethane	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
Carbon disulfide	0.009	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	0.009
Carbon tetrachloride	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Chlorobenzene	0.0018	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	0.0018
Chloroethane	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
Chloroform	ND	mg/kg	<0.0018	<0.002	<0.0025	<0.0022	<0.002
Chloromethane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
cis-1,2-Dichloroethene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
cis-1,3-Dichloropropene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Dibromochloromethane	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Dibromomethane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Dichlorodifluoromethane	ND	mg/kg	<0.012	<0.013	<0.017	<0.015	<0.013
Diethyl ether	ND	mg/kg	<0.0059	<0.0066	<0.0084	<0.0075	<0.0065
Di-isopropyl ether	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Ethyl tertiary-butyl ether	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Ethylbenzene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Hexachlorobutadiene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Isopropylbenzene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Methyl tert-butyl ether	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
Methylene chloride	ND	mg/kg	<0.012	<0.013	<0.017	<0.015	<0.013
Naphthalene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
n-Butylbenzene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
n-Propylbenzene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
o-Chlorotoluene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
o-Xylene	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
p/m-Xylenes	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
p-Chlorotoluene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
p-Isopropyltoluene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
sec-Butylbenzene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Styrene	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
Tert-amyl methyl ether	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Tert-Butylbenzene	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Tetrachloroethene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Tetrahydrofuran	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Toluene	ND	mg/kg	<0.0018	<0.002	<0.0025	<0.0022	<0.002
trans-1,2-Dichloroethene	ND	mg/kg	<0.0018	<0.002	<0.0025	<0.0022	<0.002

TABLE 7
LAGOON SLUDGE ANALTYICAL RESULTS
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Analyte	Maximum Concentration Across All Samples	Sample ID Laboratory Work Order Sample Date	LAGOON NORTH L1718045/L1718792 6/1/2017	LAGOON SOUTH L1718045/L1718792 6/1/2017	IRON SLUDGE LAGOON-1 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-2 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-3 L1722002/L1722611 6/28/2017
trans-1,3-Dichloropropene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Trichloroethene	ND	mg/kg	<0.0012	<0.0013	<0.0017	<0.0015	<0.0013
Trichlorofluoromethane	ND	mg/kg	<0.0047	<0.0052	<0.0067	<0.006	<0.0052
Vinyl chloride	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
Xylenes, Total	ND	mg/kg	<0.0024	<0.0026	<0.0033	<0.003	<0.0026
Total VOCs	0.0668	mg/kg	ND	ND	ND	ND	0.0668
Semi-Volatile Organic Compounds							
1,2,4-Trichlorobenzene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
1,2-Dichlorobenzene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
1,3-Dichlorobenzene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
1,4-Dichlorobenzene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2,4,5-Trichlorophenol	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2,4,6-Trichlorophenol	ND	mg/kg	<0.24	<0.32	<0.29	<0.25	<0.22
2,4-Dichlorophenol	ND	mg/kg	<0.35	<0.49	<0.43	<0.38	<0.33
2,4-Dimethylphenol	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2,4-Dinitrophenol	ND	mg/kg	<1.9	<2.6	<2.3	<2	<1.8
2,4-Dinitrotoluene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2,6-Dinitrotoluene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2-Chloronaphthalene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2-Chlorophenol	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2-Methylnaphthalene	ND	mg/kg	<0.47	<0.65	<0.57	<0.51	<0.44
2-Methylphenol	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
2-Nitrophenol	ND	mg/kg	<0.85	<1.2	<1	<0.91	<0.79
3,3'-Dichlorobenzidine	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
3-Methylphenol/4-Methylphenol	ND	mg/kg	<0.57	<0.78	<0.69	<0.61	<0.52
4-Bromophenyl phenyl ether	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
4-Chloroaniline	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
4-Nitrophenol	ND	mg/kg	<0.55	<0.76	<0.67	<0.59	<0.51
Acenaphthene	ND	mg/kg	<0.31	<0.43	<0.38	<0.34	<0.29
Acenaphthylene	ND	mg/kg	<0.31	<0.43	<0.38	<0.34	<0.29
Acetophenone	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Aniline	ND	mg/kg	<0.47	<0.65	<0.57	<0.51	<0.44
Anthracene	ND	mg/kg	<0.24	<0.32	<0.29	<0.25	<0.22
Azobenzene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Benzo(a)anthracene	0.32	mg/kg	<0.24	0.32	<0.29	<0.25	0.27
Benzo(a)pyrene	ND	mg/kg	<0.31	<0.43	<0.38	<0.34	<0.29
Benzo(b)fluoranthene	0.34	mg/kg	<0.24	<0.32	0.34	<0.25	0.33
Benzo(ghi)perylene	ND	mg/kg	<0.31	<0.43	<0.38	<0.34	<0.29
Benzo(k)fluoranthene	ND	mg/kg	<0.24	<0.32	<0.29	<0.25	<0.22
Bis(2-chloroethoxy)methane	ND	mg/kg	<0.42	<0.59	<0.52	<0.46	<0.39
Bis(2-chloroethyl)ether	ND	mg/kg	<0.35	<0.49	<0.43	<0.38	<0.33
Bis(2-chloroisopropyl)ether	ND	mg/kg	<0.47	<0.65	<0.57	<0.51	<0.44
Bis(2-ethylhexyl)phthalate	9.4	mg/kg	<0.39	<0.54	<0.48	9.4	<0.36
Butyl benzyl phthalate	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Chrysene	0.26	mg/kg	<0.24	<0.32	<0.29	<0.25	0.26

TABLE 7
LAGOON SLUDGE ANALTYICAL RESULTS
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Analyte	Maximum Concentration Across All Samples	Sample ID Laboratory Work Order Sample Date	LAGOON NORTH L1718045/L1718792 6/1/2017	LAGOON SOUTH L1718045/L1718792 6/1/2017	IRON SLUDGE LAGOON-1 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-2 L1722002/L1722611 6/28/2017	IRON SLUDGE LAGOON-3 L1722002/L1722611 6/28/2017
Dibenzo(a,h)anthracene	ND	mg/kg	<0.24	<0.32	<0.29	<0.25	<0.22
Dibenzofuran	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Diethyl phthalate	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Dimethylphthalate	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Di-n-butylphthalate	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Di-n-octyl phthalate	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Fluoranthene	0.79	mg/kg	<0.24	0.79	0.49	0.44	0.57
Fluorene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Hexachlorobenzene	ND	mg/kg	<0.24	<0.32	<0.29	<0.25	<0.22
Hexachlorobutadiene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Hexachloroethane	ND	mg/kg	<0.31	<0.43	<0.38	<0.34	<0.29
Indeno(1,2,3-cd)pyrene	ND	mg/kg	<0.31	<0.43	<0.38	<0.34	<0.29
Isophorone	ND	mg/kg	<0.35	<0.49	<0.43	<0.38	<0.33
Naphthalene	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Nitrobenzene	ND	mg/kg	<0.35	<0.49	<0.43	<0.38	<0.33
Pentachlorophenol	ND	mg/kg	<0.79	<1.1	<0.96	<0.84	<0.73
Phenanthrene	0.57	mg/kg	<0.24	0.53	0.42	0.57	0.47
Phenol	ND	mg/kg	<0.39	<0.54	<0.48	<0.42	<0.36
Pyrene	0.67	mg/kg	<0.24	0.67	0.38	0.43	0.5
Pyridine	ND	mg/kg	<0.42	<0.59	<0.52	<0.46	<0.39
Total SVOCs	10.84	mg/kg	ND	2.31	1.63	10.84	2.4
Classical Chemistry							
Corrosivity (pH)	8-9.4	SU	8.5	8	9.4	8.3	8.9
Conductivity	1800	umhos/cm	1600	1800	1600	1200	1100
Flashpoint	>150	deg f	>150	>150	>150	>150	>150
Ignitability	N.I.	none	N.I.	N.I.	--	--	--
Reactive Cyanide	ND	mg/kg	< 10	< 10	<10	<10	<10
Reactive Sulfide	ND	mg/kg	< 10	< 10	<10	<10	<10

Notes:
1. N.I.=not ignitable; "<" indicates less than the reporting limit indicated to the right; "--" indicates not analyzed

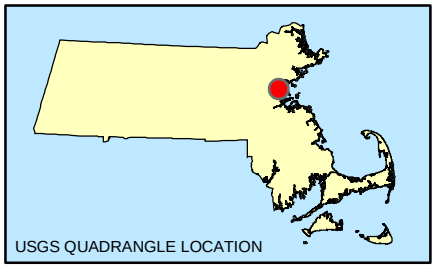
TABLE 8
SUMMARY OF ANALYTICAL DATA -SHORELINE WATER
Wynn Everett
1 Horizon Way
Everett, Massachusetts

Analyte	Sample ID Sampling Date Lab Sample ID	Shoreline Surface Water_Green/Yellow[8] 4/25/2017 1704663-01/1704758-01	SW-1 Mystic Risk Background 5/18/2017 L1716291-01	Receiving Water - Mystic River 5/18/2017 L1716287-01	MSWS for Protection of Aquatic Life[3]	
Total Metals	**Units**					
Arsenic	ug/L	149	3.3	1.89	36	
Cadmium	ug/L	<1.0	2.5	<1.0	8.8	
Iron	ug/L	836	472	362	1000	4
Lead	ug/L	15.3	7.9	7.33	8.1	
Manganese	ug/L	1430	85.8	NA	NA	
Vanadium	ug/L	22.2	25	NA	50	5
Classical Chemistry						
Sulfur	mg/L	2,110	468	NA	NA	
Dissolved Organic Carbon	mg/L	22.1	NA	NA	NA	
Total Organic Carbon (Average)	mg/L	21.2	NA			
SVOCs						
1,2,4-Trichlorobenzene	ug/L	<42.1	NA	NA	30	6
1,2-Dichlorobenzene	ug/L	<42.1	NA	NA	14	6
1,3-Dichlorobenzene	ug/L	<42.1	NA	NA	38	6
1,4-Dichlorobenzene	ug/L	<42.1	NA	NA	9.4	6
2,4,5-Trichlorophenol	ug/L	<42.1	NA	NA	NA	
2,4,6-Trichlorophenol	ug/L	<42.1	NA	NA	NA	
2,4-Dichlorophenol	ug/L	<42.1	NA	NA	NA	
2,4-Dimethylphenol	ug/L	<211	NA	NA	NA	
2,4-Dinitrophenol	ug/L	<211	NA	NA	NA	
2,4-Dinitrotoluene	ug/L	<42.1	NA	NA	NA	
2,6-Dinitrotoluene	ug/L	<42.1	NA	NA	NA	
2-Chloronaphthalene	ug/L	<42.1	NA	NA	NA	
2-Chlorophenol	ug/L	<42.1	NA	NA	NA	
2-Methylnaphthalene	ug/L	<42.1	NA	NA	72.16	7
2-Methylphenol	ug/L	<42.1	NA	NA	67	6
2-Nitrophenol	ug/L	<42.1	NA	NA	NA	
3,3´-Dichlorobenzidine	ug/L	<84.2	NA	NA	NA	
3+4-Methylphenol	ug/L	<84.2	NA	NA	NA	
4-Bromophenyl-phenylether	ug/L	<42.1	NA	NA	NA	
4-Chloroaniline	ug/L	<84.2	NA	NA	NA	
4-Nitrophenol	ug/L	<211	NA	NA	NA	
Acenaphthene	ug/L	<42.1	NA	NA	55.85	7
Acenaphthylene	ug/L	<42.1	NA	NA	306.9	7
Acetophenone	ug/L	<42.1	NA	NA	NA	
Aniline	ug/L	<42.1	NA	NA	NA	
Anthracene	ug/L	<42.1	NA	NA	20.73	7
Azobenzene	ug/L	<84.2	NA	NA	NA	
Benzo(a)anthracene	ug/L	<42.1	NA	NA	2.227	7
Benzo(a)pyrene	ug/L	<42.1	NA	NA	0.9573	7
Benzo(b)fluoranthene	ug/L	<42.1	NA	NA	0.6774	7
Benzo(g,h,i)perylene	ug/L	<42.1	NA	NA	0.4391	7
Benzo(k)fluoranthene	ug/L	<42.1	NA	NA	0.6415	7
bis(2-Chloroethoxy)methane	ug/L	<42.1	NA	NA	NA	
bis(2-Chloroethyl)ether	ug/L	<42.1	NA	NA	NA	
bis(2-chloroisopropyl)Ether	ug/L	<42.1	NA	NA	NA	
bis(2-Ethylhexyl)phthalate	ug/L	<25.3	NA	NA	0.3	6
Butylbenzylphthalate	ug/L	<42.1	NA	NA	23	6
Chrysene	ug/L	<42.1	NA	NA	2.042	7
Dibenzo(a,h)Anthracene	ug/L	<42.1	NA	NA	0.2825	7
Dibenzofuran	ug/L	<42.1	NA	NA	4	6
Diethylphthalate	ug/L	<42.1	NA	NA	110	6
Dimethylphthalate	ug/L	<42.1	NA	NA	NA	
Di-n-butylphthalate	ug/L	<42.1	NA	NA	9.7	6
Di-n-octylphthalate	ug/L	<42.1	NA	NA	30	6
Fluoranthene	ug/L	<42.1	NA	NA	7.109	7
Fluorene	ug/L	<42.1	NA	NA	39.3	7
Hexachlorobenzene	ug/L	<42.1	NA	NA	0.0003	6
Hexachlorobutadiene	ug/L	<42.1	NA	NA	NA	
Hexachloroethane	ug/L	<21.1	NA	NA	NA	
Indeno(1,2,3-cd)Pyrene	ug/L	<42.1	NA	NA	0.275	7
Isophorone	ug/L	<42.1	NA	NA	NA	
Naphthalene	ug/L	<42.1	NA	NA	193.5	7
Nitrobenzene	ug/L	<42.1	NA	NA	NA	
N-Nitrosodimethylamine	ug/L	<42.1	NA	NA	NA	
Pentachlorophenol	ug/L	<211	NA	NA	NA	
Phenanthrene	ug/L	<42.1	NA	NA	19.13	7
Phenol	ug/L	<42.1	NA	NA	180	6
Pyrene	ug/L	<42.1	NA	NA	10.11	7

Notes:
1. "<" indicates the analyte was not detected above the method detection limit shown to the right.
2. NA = Not Analyzed, or Not Available
3. Unless otherwise noted, these are chronic USEPA National Recommended Water Quality Criteria (NRWQC) for saltwater, which have been adopted by MassDEP as Massachusetts Surface Water Standards (MSWS). NRWQC for the protection of aquatic life are available here: https://www.epa.gov/wqc/national-recommended-water-quality-criteria-aquatic-life-criteria-table
4. This is the chronic NRWQC for freshwater.
5. British Columbia Water Quality Guideline for marine waters as presented on the NOAA Screening Quick Reference Table (SQuiRT).
6. These WQBs for freshwater from a compilation of ecological screening benchmarks from U.S. EPA Region 5, available at: http://www3.epa.gov/region5/waste/cars/pdfs/ecological-screening-levels-200308.pdf.
7. These are Final Chronic Values (FCVs) used to develop equilibrium partitioning benchmarks for PAHs in sediment. These FCVs were developed by the U.S. EPA, and are presented in "Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: PAH Mixtures", EPA-600-R-02-013. November, 2003.
8. This is a sample of the seep water at the point of discharge, and is not representative of surface water conditions in the Mystic River.

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: AUGUST 2017

SITE LOCUS MAP

WYNN BOSTON HARBOR
EVERETT, MASSACHUSETTS

JOB NO.
01.0171521.52

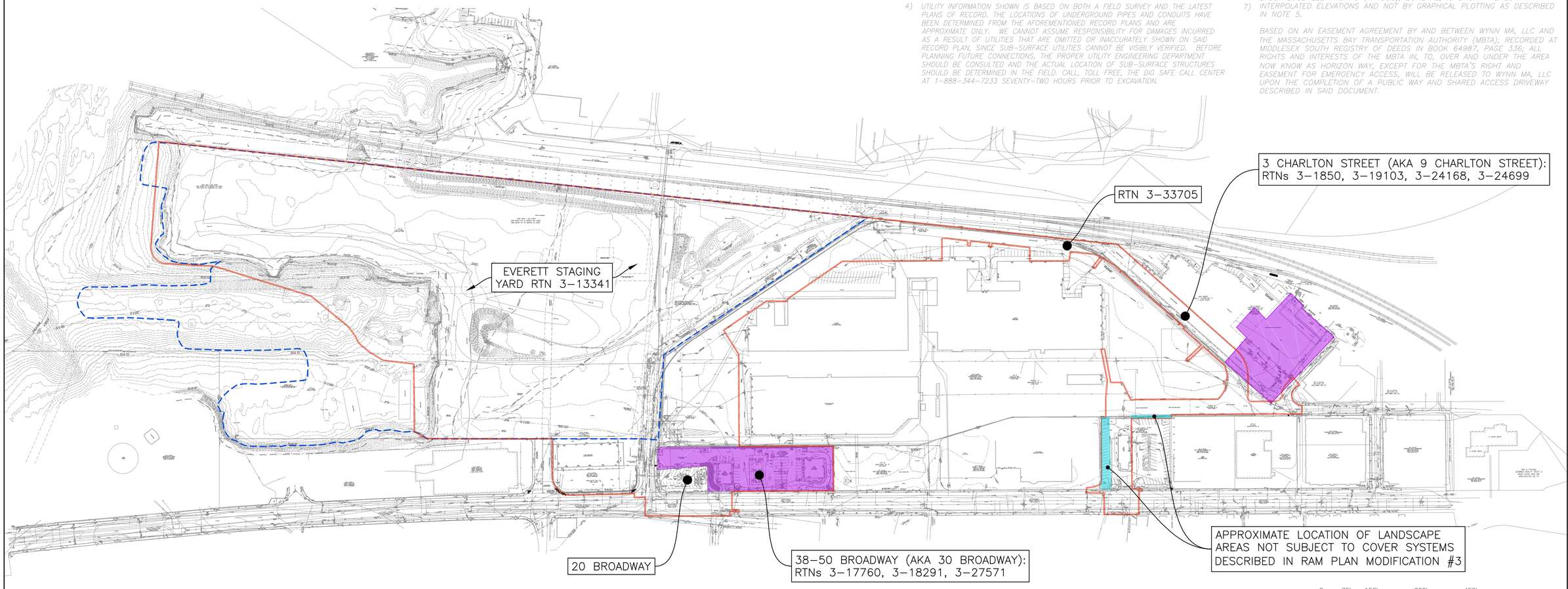
FIGURE NO.
1

© 2017 - GZA GeoEnvironmental, Inc., J:\170,000-179,999\171521\171521-52.MPS\FIGURES\GIS\MXDs\171521_SITE_LOCUS-FIG1.mxd, 8/24/2017, 2:58:17 PM, anthony.pungitore

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

SEWER MANHOLE	FND FOUND
DRAIN MANHOLE	± MORE OR LESS
ELECTRIC MANHOLE	DH DRILL HOLE
TELEPHONE MANHOLE	VGC VERTICAL GRANITE CURB
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	METAL FENCE
LIGHT POLE	SEWER
ELECTRIC HANDHOLE	DRAIN
SIGN	WATER
FA FIRE ALARM	GAS
OBSERVATION WELL	OHW OVERHEAD WIRES
GP GATE POST	RETAINING WALL
BOUND FOUND	
SB STONE BOUND	
CB CONCRETE BOUND	
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.

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

WYNN BOSTON HARBOR
1 HORIZON WAY
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: AUGUST, 2017	PROJECT NO. 01.0171521.52	REVISION NO.	

© 2016 – GZA GeoEnvironmental, Inc. G:\Branch Offices\01\01.0171521.00 Everett Land Development\Figures and CAD\Remediation CAD\RAM CAD for Vijay\Figure 2–4 – RAM Boundary.dwg [Figure 1 (072717)] August 28, 2017 – 1:45pm joshua.zall

APPROXIMATE LOCATION OF EXCAVATION FOR DETENTION BASIN (WORK ONGOING)

APPROXIMATE LIMITS OF PILE CAP AND GRADE BEAM EXCAVATION IN THE CONVENTION CENTER PORTION OF THE BUILDING

COMPLETED GARAGE EXCAVATION WORK

APPROXIMATE AREA EXCAVATED AND BACKFILLED BETWEEN APRIL 2017 AND AUGUST 2017 FOR LIVING SHORELINE

APPROXIMATE LIMITS OF EXCAVATION TO REMOVE SOILS AND DISCOLORED SEEP. BACKFILLED WITH CONTROLLED DENSITY FILL.

APPROXIMATE LOCATION OF EXCAVATION FOR INSTALLATION OF OUTFALL #3

APPROXIMATE AREA EXCAVATED BETWEEN JANUARY 2017 AND FEBRUARY 2017 FOR CONSTRUCTION OF THE RIP RAP EMBANKMENT

APPROXIMATE AREA EXCAVATED BETWEEN MARCH 2017 AND JUNE 2017 FOR CONSTRUCTION OF THE LOAD TRANSFER PLATFORM

APPROXIMATE LOCATION OF EXCAVATION FOR FUEL TANK INSTALLATIONS

APPROXIMATE LOCATION OF UST REMOVAL

APPROXIMATE LIMITS OF EXCAVATION FOR SEWER LINE INSTALLATION

MATERIAL MANAGEMENT AREA (STOCKPILE)

IRON SLUDGE LAGOONS MATERIAL MANAGEMENT AREA

MATERIAL MANAGEMENT AREA (STOCKPILE)

MATERIAL MANAGEMENT AREA (STOCKPILES FOR LOAD OUT/TRUCKING)

STA-1 STA-2 STA-3 STA-4

DL_TP_1 DL_TP_2 DL_TP_3 DL_TP_4 DL_TP_5 DL_TP_6 DL_TP_7

DB2_SB1 DB2_SB2 DB2_SB3 DB2_SB4

DB1_SB1 DB1_SB2 DB1_SB3 DB1_SB4 DB1_SB5

TANK_SB1 TANK_SB2 TANK_SB3 TANK_SB4

UTP-1 UTP-2 UTP-3 UTP-4 UTP-5 UTP-6 UTP-7 UTP-8 UTP-9 UTP-10 UTP-11 UTP-12 UTP-13 UTP-14 UTP-15 UTP-16 UTP-17 UTP-18 UTP-19 UTP-20 UTP-21 UTP-22 UTP-23 UTP-24 UTP-25 UTP-26 UTP-27 UTP-28

U01 U02 U03 U04 U05 U06 U07 U08 U09 U10 U11 U12 U13 U14

SR1 SR2 SR3 SR4 SR5 SR6 SR7 SR8 SR9

SW-1 SW-2 SW-3 SW-4 SW-5 SW-6 SW-7 SW-8 SW-9 SW-10 SW-11 SW-12 SW-13 SW-14 SW-15 SW-16 SW-17 SW-18 SW-19 SW-20

DL-1 DL-2 DL-3 DL-4 DL-5 DL-6 DL-7 DL-8 DL-9 DL-10 DL-11 DL-12 DL-13 DL-14

LEGEND

- APPROXIMATE AIRLOGICS SAMPLING LOCATION
- APPROXIMATE RAM BOUNDARY
- SOIL CHARACTERIZATION GRID
- SLURRY WALL TRENCH
- VENT TRENCH

0 30 60 120 180
SCALE IN FEET

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

WYNN 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: AUGUST 2017	PROJECT NO. 01.0171521.52	REVISION NO.	

© 2017 - GZA GeoEnvironmental, Inc. J:\170,000-179,999\171521\171521-52.MPS\FIGURES\GIS\MXDs\171521_RAM_AUG2017_v2.mxd, 8/24/2017, 3:01:37 PM, anthony.punigtore

Appendix A - Transmittal Form BWSC106

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**KGERRA**
Transaction ID:	**948807**
Document:	**BWSC106 Release Abatement Measure Transmittal Form**
Size of File:	**177.74K**
Status of Transaction:	**In Process**
Date and Time Created:	**8/24/2017:5:29:35 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 106

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 HORIZON WAY
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: HISTORIC 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: HISTORIC 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 83,290

iia. Receiving Facility: TALYOR COUNTY LANDFILL (TCL) Town: MAUK State: GA

iib. Receiving Facility: WASTE MANAGMENT OF NH (TREE) Town: ROCHESTER State: NH

iii. Describe: ~1,160 CY @ TCL; ~1,255 CY (AIS),~2,320 CY (TREATED AIS),~19,440 CY & 7,035 (TREATED) @ WM OF NH TREE; ~51,695 SUNNY FARMS LANDFILL, FOSTORIA, OH; ~385 CY SLUDGE CROSSROADS, NORRIDGEWOCK, ME

☐ 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 6291

Receiving Facility: WASTE MANAGEMNT OF NH (TREE) Town: ROCHESTER State: NH

☑ ii. Disposal Estimated volume in cubic yards 10828

Receiving Facility: WASTE MANAGMENT OF NH (TREE) Town: ROCHESTER State: NH

☑ 18. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: ~26 CY NON-FRIABLE ACM IN 2 6-ML POLY BAGGED TO MINERVA. ~35CY NON-FRIABLE IN 2 6-ML POLY BAGGED TO FRANK ROAD RECYCLING SOLUTIONS.

b. Receiving Facility: MINERVA ENTERPRISES Town: WAYNESBURG State: OH

c. Receiving Facility: FRANK ROAD RECYCLING SOLUTIONS Town: GROVE CITY State: OH

☑ 19. Removal of Other Contaminated Media:

a. Specify Type and Volume: 1 14,000&1-10,000 G GASOLINE UST&1-6,000 G DIESEL UST, ALLIED, 318 G OILY-WATER, CYN, 470 LBS TANK SLUDGE NORTHLAND ENVIRONMENTAL, PROVIDENCE, RI AND 318 CY SLUDGE CROSSROADS, NORRIDGEWOCK, ME

b. Receiving Facility: ALLIED RECYCLING CENTER Town: WALPOLE State: MA

c. Receiving Facility: CYN OIL CORPORATION Town: STOUGHTON State: MA

☑ 20. Other Response Actions:

Describe: OTHER SOIL(CY) : ~1,020 FITCHBURG LANDFILL; ~1,345 MIDDLEBOROUGH LANDFILL;~4,985 TAUNTON LANDFILL; ~11,875 GREENACRES (RCS-1); ~1,655 US ECOLOGY (MI); ~20,030 (FALL RIVER, CLINTON, HOPEDALE LANDFILLS)

☐ 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:
8. Date: (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 FLOOR 2 6. Title: PRESIDENT

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

10. Telephone: 8477707801 11. Ext.: 12. Email: robert.desalvio@wynnre

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.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 106

Release Tracking Number
3 - 13341

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

I. CERTIFICATION OF PERSON UNDERTAKING RAM:

1. I, _____ , 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: _____ (Signature)

3. Title: PRESIDENT

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

5. Date: _____ (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:)

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 – UST Removal Documentation (38 Broadway)



Proactive by Design

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

249 Vanderbilt Avenue
Norwood, MA 02062
T: 781.278.3700
F: 781.278.5701
F: 781.278.5702
www.gza.com

August 9, 2017
File No. 01.0171521.52

Mr. Alfred Carrier
Wynn Design and Development
3 Charlton Street
Everett, Massachusetts 02149

Re: Underground Storage Tank Removal – Mobil Property
38 Broadway
Everett, Massachusetts 02149
Wynn Boston Harbor

Dear Mr. Carrier:

GZA GeoEnvironmental, Inc. (GZA), on behalf of Wynn MA, LLC (Wynn MA), has prepared this letter report summarizing activities related to the removal of three underground storage tanks (USTs) at the Mobil property located at 38 Broadway in Everett Massachusetts (the Site). This letter report has been prepared in accordance with the Limitations included in Appendix A.

OBJECTIVES

The objectives of GZA's services were to observe, document and report on subsurface conditions during the removal of three (3) existing double-walled, fiberglass USTs that previously contained gasoline and diesel fuel. GZA collected representative soil samples from the sidewalls and bottoms of the tank graves to evaluate the presence of potential impacts to soil and groundwater.

SUMMARY OF WORK

On June 15, 2017, a representative from GZA observed the excavation and removal of one 14,000-gallon and one 10,000-gallon UST at the Site. Both USTs were observed to of double-walled fiberglass construction, and are both known to have contained gasoline. Prior to removal, Cyn Environmental (Cyn) pumped out remaining gasoline from inside the tanks into a vac-truck and pressure-washed the interior of the tanks for a final cleaning. JDC Demolition (JDC) used an excavator to remove the surrounding material at each of the two USTs. The excavated material consisted predominantly of ¼-inch pea-stone gravel and was temporarily stockpiled adjacent to the excavation. No visible petroleum impacts were observed on the material removed from the excavation. The area excavated was approximately 30 feet wide by 60 feet long by 10 feet deep. Groundwater was observed in the excavation approximately 10 feet below ground surface (bgs).

An Equal Opportunity Employer M/F/V/H

JDC removed both USTs from the excavation and downsized the tanks by crushing them with an excavator. Prior to downsizing, GZA observed that both tanks appeared to be in good condition with no evidence of damage or leakage. The debris from the fiberglass tanks was placed into two roll-off containers and transported off site for disposal.

Upon removal of the tanks, GZA's field engineer collected composite soil samples from five representative locations within the excavation. Samples were collected from the bottom and from the four sidewalls of the excavation. Soil samples were submitted to Alpha Analytical Laboratory in Westborough, Massachusetts (Alpha), for analytical testing of extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbons (VPH). In addition, GZA's field engineer collected soil samples at each location for field headspace screening of volatile organic compounds (VOCs) using a Photoionization Detector (PID). Field VOC screening readings ranged between 0.0 ppm and 0.7 ppm, with the highest reading (0.7 ppm) from the northern sidewall of the excavation. At approximately 13:30 hrs., after, both tanks had been removed from the ground, a representative from the Everett Fire Department came on site to observe the excavation. With the concurrence of the Fire Department, JDC backfilled the previously excavated material into the excavation.

On June 16, 2017, a representative from GZA observed the excavation and removal of a 6,000-gallon underground diesel fuel storage tank at the Site. The UST was observed to be of double-walled fiberglass construction. Prior to removal, Cyn pumped out the remaining diesel fuel from inside the tank and into a vac-truck and pressure-washed the interior of the tank for a final cleaning. JDC used an excavator to remove the surrounding material at the location of the UST. The excavated material consisted predominantly of ¼-inch pea-stone gravel with some urban fill in shallower sections of the excavation, and was temporarily stockpiled adjacent to the excavation. No visible petroleum impacts were observed on the material removed from the excavation. The area excavated was approximately 20 feet wide by 30 feet long by 10 feet deep. Groundwater was not observed in the excavation. JDC removed the UST from the excavation and downsized the tank by crushing it with an excavator. Prior to downsizing, GZA observed that the tank appeared to be in good condition with no evidence of damage or leakage. Demolition debris from the fiberglass tank was containerized into a roll-off container and transported off site for disposal. Upon removal of the tank, GZA's field engineer collected composite soil samples from five representative locations within the excavation. Samples was collected at the bottom and four sidewalls of the excavation. Soil samples submitted to Alpha for analytical testing of EPH and VPH. In addition, GZA's field engineer collected soil samples from each location for field headspace screening of VOCs using a PID. Field VOC screening indicated a range of VOCs between 0.0 ppm and 0.5 ppm, with the highest VOC measurement (0.5 ppm) collected from the eastern sidewall of the excavation. At approximately 11:00 hrs. a representative from the Everett Fire Department was on site to observe the excavation once the UST had been removed from the ground. Upon inspection by the Fire Department, JDC backfilled previously excavated material into the excavation.

Tank removal permits and disposal receipts, as provided by TRC Solutions, Inc. (TRC), are included as Appendix B.

SUMMARY OF ANALYTICAL RESULTS

Analytical results from the laboratory testing of soil samples collected on June 15 and 16 indicated that EPH and VPH concentrations were below applicable Massachusetts Contingency Plan (MCP) Reportable Concentration for Soil Categorized as RCS-2. Laboratory results are summarized in Table 1, and analytical reports are included as Appendix C. These low-level detections of petroleum constituents do not appear to have been related to leaks from the three removed tanks, but may be related to historic, relatively minor releases at the Site.

If you have any questions or need further information, please contact the undersigned at 781-278-3700.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Daniel R. Scanlon
Assistant Project Manager

David E. Leone, LSP
Associate Principal, Consultant/Reviewer

Lawrence Feldman, LSP
Senior Principal

Attachments: Table 1 – Laboratory Data
Figure 1 – Field Sketch
Appendix A - Limitations
Appendix B – Tank Closure Permits and Receipts
Appendix C – Laboratory Analytical Report

C:\Users\kristinn.gerra\Documents\New Branded Templates\Norwood Letter Report.docx

TABLE

TABLE 1
SOIL ANALYTICAL RESULTS
UST Closure
38 Broadway
Everett, Massachusetts

	TANKS 14&10-NORTH	TANKS 14&10-SOUTH	TANKS 14&10-EAST	TANKS 14&10-WEST	TANKS 14&10-BOTTOM	TANK 6-NORTH	TANK 6-SOUTH	TANK 6-EAST	TANK 6-WEST	TANK 6-BOTTOM	MCP RCS-2
Sampling Date	15-Jun-17	15-Jun-17	15-Jun-17	15-Jun-17	15-Jun-17	16-Jun-17	16-Jun-17	16-Jun-17	16-Jun-17	16-Jun-17	
Volatile Petroleum Hydrocarbons											
C9-C10 Aromatics	<4.01	<1.73	<1.77	<1.53	<1.46	<3.64	<3.55	<3.83	<3.86	<2.88	500
C5-C8 Aliphatics	<4.01	<1.73	<1.77	<1.53	<1.46	<3.64	<3.55	<3.83	<3.86	<2.88	500
C9-C12 Aliphatics	<4.01	<1.73	<1.77	<1.53	<1.46	<3.64	<3.55	<3.83	<3.86	<2.88	3000
Benzene	<0.160	<0.069	<0.071	<0.061	<0.058	<0.146	<0.142	<0.153	<0.154	<0.115	200
Toluene	<0.160	<0.069	<0.071	<0.061	<0.058	<0.146	<0.142	<0.153	<0.154	<0.115	1000
Ethylbenzene	<0.160	<0.069	<0.071	<0.061	<0.058	<0.146	<0.142	<0.153	<0.154	<0.115	1000
p/m-Xylene	<0.160	<0.069	<0.071	<0.061	<0.058	<0.146	<0.142	<0.153	<0.154	<0.115	100
o-Xylene	<0.160	<0.069	<0.071	<0.061	<0.058	<0.146	<0.142	<0.153	<0.154	<0.115	100
Methyl tert butyl ether	0.09	<0.035	<0.035	<0.031	<0.029	<0.073	<0.071	0.318	<0.077	**0.068**	100
Naphthalene	<0.321	<0.138	<0.142	<0.123	<0.117	<0.291	<0.284	<0.306	<0.309	<0.230	20
Extractable Petroleum Hydrocarbons											
C9-C18 Aliphatics	<8.35	<6.84	<7.24	<6.71	<6.72	<7.97	<8.22	**18.8**	<8.04	<7.63	3000
C19-C36 Aliphatics	**18.1**	<6.84	<7.24	<6.71	<6.72	**21.8**	**33.5**	**228**	**8.71**	**12.7**	5000
C11-C22 Aromatics	**15**	<6.84	<7.24	<6.71	<6.72	**24.7**	**36.8**	**126**	**32.1**	**30.8**	3000
Naphthalene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	<0.394	<0.402	<0.381	20
2-Methylnaphthalene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	<0.394	<0.402	<0.381	80
Acenaphthylene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	<0.394	<0.402	<0.381	10
Acenaphthene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	<0.394	<0.402	<0.381	3000
Fluorene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	<0.394	<0.402	<0.381	3000
Phenanthrene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	**0.723**	**0.591**	<0.402	<0.381	1000
Anthracene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	<0.394	<0.402	<0.381	3000
Fluoranthene	<0.418	<0.342	<0.362	<0.335	<0.336	**0.415**	**1.5**	**1.24**	**0.682**	**0.439**	3000
Pyrene	<0.418	<0.342	<0.362	<0.335	<0.336	**0.42**	**1.26**	**1.18**	**0.62**	**0.407**	3000
Benzo(a)anthracene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	**0.666**	**0.684**	<0.402	<0.381	40
Chrysene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	**0.72**	**1.08**	<0.402	<0.381	400
Benzo(b)fluoranthene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	**0.568**	**1.15**	<0.402	<0.381	40
Benzo(k)fluoranthene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	**0.568**	**0.865**	<0.402	<0.381	400
Benzo(a)pyrene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	**0.542**	**0.701**	<0.402	<0.381	7
Indeno(1,2,3-cd)Pyrene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	**0.621**	<0.402	<0.381	40
Dibenzo(a,h)anthracene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	<0.394	<0.402	<0.381	4
Benzo(ghi)perylene	<0.418	<0.342	<0.362	<0.335	<0.336	<0.398	<0.411	**0.524**	<0.402	<0.381	3000

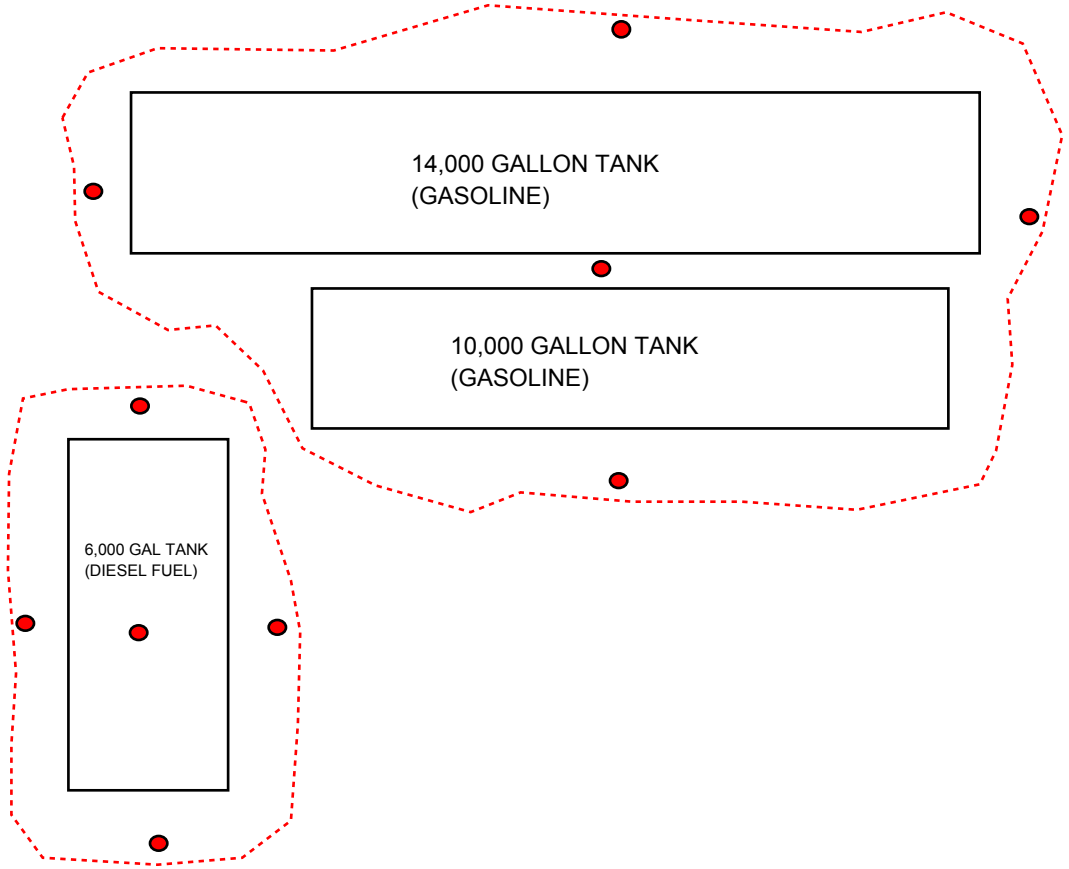
All result in milligrams per kilogram
MCP: Massachustts Contingency plan
RCS-2: Reportable Concentration for Soil
Categorized as RCS-2

FIGURE

FIELD SKETCH

UST Removal (Mobil Lot)

Date: 6/15/17 - 6/16/17



LEGEND

APPROXIMATE STOCKPILE SAMPLE LOCATIONS

APPROXIMATE SOIL SAMPLE LOCATIONS

APPROXIMATE LIMITS OF EXCAVATION

SOURCE

1) THIS MAP CONTAINS THE ESRI ArcGIS ONLINE WORLD IMAGERY MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED OFTEN. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

2) THE LOCATIONSAMPLING LOCATIONS & SELECTED SITE FEATURES, EXPLORATIONS WERE APPROXIMATELY DETERMINED BY GPS AND LINE OF SIGHT. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

0 10 20 40

SCALE IN FEET

N

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

1 Horizon Way
EVERETT, MASSACHUSETTS

SAMPLE LOCATION PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	
PROJ MGR: MMS	REVIEWED	CHECKED BY: LF	FIGURE 1
DESIGNED BY: MDD	DRAWN BY:	SCALE: 1 " = 20 FEET	
DATE: 6/16/17	PROJECT NO. 01.0171521.52	REVISION NO.	

© 2016 - GZA GeoEnvironmental, Inc. J:\170,000-179,999\171521\171521-52.MPS\FIGURES

APPENDIX A

LIMITATIONS

USE OF REPORT

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

STANDARD OF CARE

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

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

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

SUBSURFACE CONDITIONS

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

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

COMPLIANCE WITH CODES AND REGULATIONS

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

SCREENING AND ANALYTICAL TESTING

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

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

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

INTERPRETATION OF DATA

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

ADDITIONAL INFORMATION

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

ADDITIONAL SERVICES

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

APPENDIX B

TANK CLOSURE PERMITS AND RECEIPTS

208730 NH

CBOW 200 412

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MP 7 7 4 2 9 7 7 5 9 1	1	(800) 592-1039	016737331 JJK

GENERATOR

5. Generator's Name and Mailing Address
Mobil Mart, c/o JDC Demolition Co
60 Gerard St
Boston MA 02119
Generator's Phone: 5 0 5 8 9 7 - 5 0 9 0

Generator's Site Address (if different than mailing address)
Mobil Mart
36 Broadway
Everett MA

6. Transporter 1 Company Name
Cyn Oil Corporation
U.S. EPA ID Number
MAD 0 8 2 3 0 3 7 7 7

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Cyn Oil Corporation
1771 Washington St.
Stoughton MA 02072
Facility's Phone: 781 341-1777
U.S. EPA ID Number
MAD 0 8 2 3 0 3 7 7 7

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1 OW, State Regulated Waste Oily Water (Non-DOT Regulated Material)	0 0 1	TT	133	G	MA08
	2 SS, State Regulated Waste Oily Solids (Non-DOT Regulated Material)	0 0 1	TT			MA01
	3.					
	4.					

14. Special Handling Instructions and Additional Information 1(L) OILAND WATER 2(S) OILY SOLIDS

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: X Alfred J. Carrier
Signature: X
Month 6 Day 15 Year 17

INTL

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Pendleton
Signature
Month 6 Day 15 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Theodore Thomas
Signature
Month 06 Day 22 Year 17

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

208730 NH CBOW 217

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MP 7742977591	1	(800) 898-1038	016737335 JJK

GENERATOR

5. Generator's Name and Mailing Address
Mobil Mart, c/o JDC Demolition Co
60 Gerard St
Boston MA 02119
Generator's Phone: 508 897-8090

Generator's Site Address (if different than mailing address)
Mobil Mart
38 Broadway
Everett MA

6. Transporter 1 Company Name
Cyn Oil Corporation
U.S. EPA ID Number
MAD082303777

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Cyn Oil Corporation
1771 Washington St.
Stoughton MA 02072
Facility's Phone: 781 341-1777
U.S. EPA ID Number
MAD082303777

9a HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1 OW, State Regulated Waste Oily Water (Non-DOT Regulated Material)	001	TT	185	G	MA08
	2 ~~OS, State Regulated Waste Oily Solids (Non-DOT Regulated Material)~~ (KS)	~~001~~	~~TT~~			~~MA01~~
	3.					
	4.					

14. Special Handling Instructions and Additional Information 1)(L) OIL AND WATER 2)(S) OILY SOLIDS

Virgin Diesel

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jerry Perez
Signature: Jay Perez
Month 06 Day 16 Year 17

INTL

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kevin M. Sullivan
Signature
Month 06 Day 16 Year 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

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

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Richard Horne
Signature: R. Horne
Month 06 Day 16 Year 17

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

208730-NH 518955

2818971
562284-17

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MP7742877591

2. Page 1 of: 1

3. Emergency Response Phone: (800) 899-1038

4. Waste Tracking Number: 208730-NORTH

5. Generator's Name and Mailing Address
Mobil Mart, c/o JDC Demolition Co
60 Gerard St
Boston MA 02119
Generator's Phone: 508 897-8090

Generator's Site Address (if different than mailing address)
Mobil Mart
38 Broadway
Everett MA 02149

6. Transporter 1 Company Name
Cyn Oil Corporation
U.S. EPA ID Number: MAD082303777

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Northland Environmental, LLC
275 Allens Ave.
Providence RI 02905
Facility's Phone: 401 781-6340
U.S. EPA ID Number: RID040098352

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
X	UN1075, Petroleum gases, liquefied 2.1	001	CF	EST 0350	P	
X	2. UN1075, Petroleum gases, liquefied 2.1	002	DM	0120	P	
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1)(L)Propane cylinders shipped for recovery/recycling. ERG#116
859769-00
GENERATOR SIGNATURE CERTIFICATION: I have selected the container(s) for the goods listed above that are already marked, labeled, placarded, and packaged and are otherwise in proper condition for transport. I am aware that I am responsible for the proper disposal of the goods listed above if I refuse delivery.

14. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X Jon Siegel
Signature: X
Month Day Year: 6 16 17

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Sean McCafferty
Signature: Sean McCafferty
Month Day Year: 6 16 17
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Ryan Branyan
Signature:
Month Day Year: 6 22 17

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

208730-00-NH
JDC

1 of 3

The Commonwealth of Massachusetts
Department of Fire Services – Office of the State Fire Marshal

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK FORMERLY CONTAINING MOTOR FUEL

NAME AND ADDRESS OF APPROVED TANK YARD: Allied Recycling Center, Inc.
1901 Main Street
Walpole, MA 02081

Approved tank yard no. 0015 Tank Yard Ledger 502 CMR 3.03(3) Number: 20170211

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by (firm, corporation or partnership) Cyn Environmental and accepted same in conformance with Office of the State Fire Marshal Regulations 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank Dismantling Yards. A valid permit was issued by the head of the **LOCAL** fire department FDID# 17093 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

Signature : _____ Title : State Date signed: 6/16/17

TANK DATA:	TANK REMOVED FROM:
Gallons: 6,000	No. and Street: 38 Broadway
Previous contents: Fuel Oil	City and Town: Everett, MA
Diameter:	Fire Dept. Permit #:
Length:	Notes:
Date Received: 6/16/17	
Serial # (if available):	
Tank I.D. # (Form FP-290):	

EACH TANK MUST HAVE A RECEIPT OF DISPOSAL

Owner/Operator to mail revised copy of Notification Form (FP290, or FP290R) to:

Department of Environmental Protection
Bureau of Waste Prevention - UST Program
P.O. Box 120-0165
Boston, MA 02112-0165

This signed receipt of disposal must be returned to the head of the local fire department.

Make application to local fire department.
Fire department retains original application and issues duplicate as permit.

The Commonwealth of Massachusetts

Department of Fire Services – Office of the State Fire Marshal

APPLICATION and PERMIT

Fee: $150.00

for steel underground storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 1.00 Section 1.12.8.40, application is hereby made by:

Tank Owner

Tank Owner Name (please print) Mobil Mart X _____ (Signature if applying for permit)

Address 38 Broadway (Street) Everett (City) MA (State) 02149 (Zip)

Removal Contractor

Company Name CYN Environmental (Print)

Address 100 Tosca Drive Stoughton, MA 02072 (Print)

Signature (if applying for permit) _____

☐ IFCI* Certified Other _____

Contamination Assessment

Co. or Individual _____ (Print)

Address _____ (Print)

Signature (if applying for permit) _____

☐ IFCI* Certified ☐ LSP # _____ Other _____

Tank Information

Tank Location 38 Broadway (Street Address) Everett (City)

Tank Capacity (gallons) 6,000 Gallon UST Substance Last Stored Fuel Oil

Tank Dimensions (diameter x length) 96" Dia X 16' Long

Remarks: Excavate, Clean, remove and Dispose of a 6,000 gallon diesel UST.

Disposal Information

Firm Transporting Waste Cyn Environmental State Lic. # MA40

Hazardous Waste Manifest# _____ E.P.A. # MAD082303777

Approved Tank Disposal Yard Allied Recycling Tank Yard # 0015

Type of Inert Gas CO2 Tank Yard Address 1901 Main Street Walpole, MA

Approvals

City or Town Everett FDID# 17093 Permit# _____

Date of Issue 6/15/17 Date of Expiration 7/31/17

Dig Safe approval number: 20172309255 (Dig Safe Toll Free Tel. Number - 888-322-4844) Trenching Permit # EXCAVATION BY JDC DEMO

Signature / Title of Officer granting permit _____

After removal(s) ("consumptive use" fuel oil tanks exempted) send Form FP290 or Form FP-290R signed by the local fire department to MassDEP, Bureau of Waste Prevention UST Program, PO Box 120-0165, Boston, MA 02112-0165.

*International Fire Code Institute

208730-00-NH
JDC

2 of 3

The Commonwealth of Massachusetts
Department of Fire Services – Office of the State Fire Marshal

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK FORMERLY CONTAINING MOTOR FUEL

NAME AND ADDRESS OF APPROVED TANK YARD: Allied Recycling Center, Inc.
1901 Main Street
Walpole, MA 02081

Approved tank yard no. 0015 Tank Yard Ledger 502 CMR 3.03(3) Number: 20170212

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by (firm, corporation or partnership) Cyn Environmental and accepted same in conformance with Office of the State Fire Marshal Regulations 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank Dismantling Yards. A valid permit was issued by the head of the LOCAL fire department FDID# 17093 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

Signature: _____ Title: Scale Date signed: 6/16/17

TANK DATA:	TANK REMOVED FROM:
Gallons: 14,000	No. and Street: 38 Broadway
Previous contents: Gas	City and Town: Everett, MA
Diameter:	Fire Dept. Permit #:
Length:	Notes:
Date Received: 6/16/17	
Serial # (if available):	
Tank I.D. # (Form FP-290):	

EACH TANK MUST HAVE A RECEIPT OF DISPOSAL

Owner/Operator to mail revised copy of Notification Form (FP290, or FP290R) to:

Department of Environmental Protection
Bureau of Waste Prevention - UST Program
P.O. Box 120-0165
Boston, MA 02112-0165

This signed receipt of disposal must be returned to the head of the local fire department.

Make application to local fire department.
Fire department retains original application and issues duplicate as permit.

The Commonwealth of Massachusetts

Department of Fire Services – Office of the State Fire Marshal

APPLICATION and PERMIT

Fee: $150.00

for steel underground storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 1.00 Section 1.12.8.40, application is hereby made by:

Tank Owner

Tank Owner Name (please print) Mobil Mart X _____ Signature (if applying for permit)

Address 38 Broadway (Street) Everett (City) MA (State) 02149 (Zip)

Removal Contractor

Company Name CYN Environmental (Print)

Address 100 Tosca Drive Stoughton, MA 02072 (Print)

Signature (if applying for permit) _____

☐ IFCI* Certified Other _____

Contamination Assessment

Co. or Individual _____ (Print)

Address _____ (Print)

Signature (if applying for permit) _____

☐ IFCI* Certified ☐ LSP # _____ Other _____

Tank Information

Tank Location 38 Broadway (Street Address) Everett (City)

Tank Capacity (gallons) 14,000 Gallon UST Substance Last Stored Gas

Tank Dimensions (diameter x length) 126" Dia X 23' Long

Remarks: Excavate, Clean, remove and Dispose of a 14,000 gallon gas UST.

Disposal Information

Firm Transporting Waste Cyn Environmental State Lic. # MA40

Hazardous Waste Manifest# _____ E.P.A. # MAD082303777

Approved Tank Disposal Yard Allied Recycling Tank Yard # 0015

Type of Inert Gas CO2 Tank Yard Address 1901 Main Street Walpole, MA

Approvals

City or Town Everett FDID# 17093 Permit# _____

Date of Issue 6/15/17 Date of Expiration 7/31/17

Dig Safe approval number: 20172309255 (Dig Safe Toll Free Tel. Number 888-344-7233) Trenching Permit # EXCAVATION BY JDC DEMO

Signature / Title of Officer granting permit _____

After removal(s) ("consumptive use" fuel oil tanks exempted) send Form FP290 or Form FP-290R signed by the local fire department to MassDEP, Bureau of Waste Prevention UST Program, PO Box 120-0165, Boston, MA 02112-0165.

*International Fire Code Institute

208730-00-NH
JDC 3 of 3

The Commonwealth of Massachusetts
Department of Fire Services – Office of the State Fire Marshal

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK FORMERLY CONTAINING MOTOR FUEL

NAME AND ADDRESS OF APPROVED TANK YARD: Allied Recycling Center, Inc.
1901 Main Street
Walpole, MA 02081

Approved tank yard no. 0015 Tank Yard Ledger 502 CMR 3.03(3) Number: 20170213

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by (firm, corporation or partnership) Cyn Environmental and accepted same in conformance with Office of the State Fire Marshal Regulations 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank Dismantling Yards. A valid permit was issued by the head of the LOCAL fire department FDID# 17093 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

Signature: _____ Title: Sale Date signed: 6/16/17

TANK DATA:	TANK REMOVED FROM:
Gallons: 10,000	No. and Street: 38 Broadway
Previous contents: Gas.	City and Town: Everett, MA
Diameter:	Fire Dept. Permit #:
Length:	Notes:
Date Received: 6/16/17	
Serial # (if available):	
Tank I.D. # (Form FP-290):	

EACH TANK MUST HAVE A RECEIPT OF DISPOSAL

Owner/Operator to mail revised copy of Notification Form (FP290, or FP290R) to:

Department of Environmental Protection
Bureau of Waste Prevention - UST Program
P.O. Box 120-0165
Boston, MA 02112-0165

This signed receipt of disposal must be returned to the head of the local fire department.

Make application to local fire department.
Fire department retains original application and issues duplicate as permit.

The Commonwealth of Massachusetts

Department of Fire Services – Office of the State Fire Marshal

APPLICATION and PERMIT

Fee: $150.00

for steel underground storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 1.00 Section 1.12.6.40, application is hereby made by:

Tank Owner

Tank Owner Name (please print) Mobil Mart X _____ Signature (if applying for permit)

Address 38 Broadway (Street) Everett (City) MA (State) 02149 (Zip)

Removal Contractor

Company Name CYN Environmental (Print)

Address 100 Tosca Drive Stoughton, MA 02072 (Print)

Signature (if applying for permit)

_____

☐ IFCI* Certified Other _____

Contamination Assessment

Co. or Individual _____ (Print)

Address _____ (Print)

Signature (if applying for permit)

_____

☐ IFCI* Certified ☐ LSP # _____ Other _____

Tank Information

Tank Location 38 Broadway (Street Address) Everett (City)

Tank Capacity (gallons) 10,000 Gallon UST Substance Last Stored Gas

Tank Dimensions (diameter x length) 96" Dia X 23' Long

Remarks: Excavate, Clean, remove and Dispose of a 10,000 gallon gas UST.

Disposal Information

Firm Transporting Waste Cyn Environmental State Lic. # MA40

Hazardous Waste Manifest# _____ E.P.A. # MAD082303777

Approved Tank Disposal Yard Allied Recycling Tank Yard # 0015

Type of Inert Gas CO2 Tank Yard Address 1901 Main Street Walpole, MA

Approvals

City or Town Everett FDID# 17093 Permit# _____

Date of Issue 6/15/17 Date of Expiration 7/31/17

Dig Safe approval number: 20172309255 (Dig Safe Toll Free Tel. Number - 800-322-4844) Trenching Permit # EXCAVATION BY JDC DEMO

Signature / Title of Officer granting permit _____

After removal(s) ("consumptive use" fuel oil tanks exempted) send Form FP290 or Form FP-290R signed by the local fire department to MassDEP, Bureau of Waste Prevention UST Program, PO Box 120-0165, Boston, MA 02112-0165.

*International Fire Code Institute

APPENDIX C

LABORATORY ANALYTICAL REPORT

ANALYTICAL REPORT

Lab Number:	L1720575
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:	06/22/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1720575
Report Date: 06/22/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720575-01	TANKS 14&10-NORTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 14:15	06/19/17
L1720575-02	TANKS 14&10-SOUTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 15:10	06/19/17
L1720575-03	TANKS 14&10-EAST	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 14:30	06/19/17
L1720575-04	TANKS 14&10-WEST	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 14:00	06/19/17
L1720575-05	TANKS 14&10-BOTTOM	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 13:50	06/19/17
L1720575-06	TANK 6-NORTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:30	06/19/17
L1720575-07	TANK 6-SOUTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:35	06/19/17
L1720575-08	TANK 6-EAST	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:40	06/19/17
L1720575-09	TANK 6-WEST	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:45	06/19/17
L1720575-10	TANK 6-BOTTOM	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:50	06/19/17

Project Name: WYNN EVERETT **Lab Number:** L1720575

Project Number: 171521.52 **Report Date:** 06/22/17

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).	YES
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?	YES
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: L1720575
Report Date: 06/22/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Case Narrative (continued)

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/22/17

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-01	Date Collected:	06/15/17 14:15
Client ID:	TANKS 14&10-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/21/17 16:27		
Analyst:	JM		
Percent Solids:	79%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	4.01	--	1
C9-C12 Aliphatics	ND		mg/kg	4.01	--	1
C9-C10 Aromatics	ND		mg/kg	4.01	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	4.01	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	4.01	--	1
Benzene	ND		mg/kg	0.160	--	1
Toluene	ND		mg/kg	0.160	--	1
Ethylbenzene	ND		mg/kg	0.160	--	1
p/m-Xylene	ND		mg/kg	0.160	--	1
o-Xylene	ND		mg/kg	0.160	--	1
Methyl tert butyl ether	0.090		mg/kg	0.080	--	1
Naphthalene	ND		mg/kg	0.321	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	108		70-130
2,5-Dibromotoluene-FID	109		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-01	Date Collected:	06/15/17 14:15
Client ID:	TANKS 14&10-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 17:16	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	79%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.35	--	1
C19-C36 Aliphatics	18.1		mg/kg	8.35	--	1
C11-C22 Aromatics	15.0		mg/kg	8.35	--	1
C11-C22 Aromatics, Adjusted	15.0		mg/kg	8.35	--	1
Naphthalene	ND		mg/kg	0.418	--	1
2-Methylnaphthalene	ND		mg/kg	0.418	--	1
Acenaphthylene	ND		mg/kg	0.418	--	1
Acenaphthene	ND		mg/kg	0.418	--	1
Fluorene	ND		mg/kg	0.418	--	1
Phenanthrene	ND		mg/kg	0.418	--	1
Anthracene	ND		mg/kg	0.418	--	1
Fluoranthene	ND		mg/kg	0.418	--	1
Pyrene	ND		mg/kg	0.418	--	1
Benzo(a)anthracene	ND		mg/kg	0.418	--	1
Chrysene	ND		mg/kg	0.418	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.418	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.418	--	1
Benzo(a)pyrene	ND		mg/kg	0.418	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.418	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.418	--	1
Benzo(ghi)perylene	ND		mg/kg	0.418	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-01
Client ID: TANKS 14&10-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 14:15
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	86		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-02	Date Collected:	06/15/17 15:10
Client ID:	TANKS 14&10-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 10:34		
Analyst:	JM		
Percent Solids:	95%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1.8

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.73	--	1
C9-C12 Aliphatics	ND		mg/kg	1.73	--	1
C9-C10 Aromatics	ND		mg/kg	1.73	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.73	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.73	--	1
Benzene	ND		mg/kg	0.069	--	1
Toluene	ND		mg/kg	0.069	--	1
Ethylbenzene	ND		mg/kg	0.069	--	1
p/m-Xylene	ND		mg/kg	0.069	--	1
o-Xylene	ND		mg/kg	0.069	--	1
Methyl tert butyl ether	ND		mg/kg	0.035	--	1
Naphthalene	ND		mg/kg	0.138	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	94		70-130
2,5-Dibromotoluene-FID	95		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-02	Date Collected:	06/15/17 15:10
Client ID:	TANKS 14&10-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 17:54	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	95%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.84	--	1
C19-C36 Aliphatics	ND		mg/kg	6.84	--	1
C11-C22 Aromatics	ND		mg/kg	6.84	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.84	--	1
Naphthalene	ND		mg/kg	0.342	--	1
2-Methylnaphthalene	ND		mg/kg	0.342	--	1
Acenaphthylene	ND		mg/kg	0.342	--	1
Acenaphthene	ND		mg/kg	0.342	--	1
Fluorene	ND		mg/kg	0.342	--	1
Phenanthrene	ND		mg/kg	0.342	--	1
Anthracene	ND		mg/kg	0.342	--	1
Fluoranthene	ND		mg/kg	0.342	--	1
Pyrene	ND		mg/kg	0.342	--	1
Benzo(a)anthracene	ND		mg/kg	0.342	--	1
Chrysene	ND		mg/kg	0.342	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.342	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.342	--	1
Benzo(a)pyrene	ND		mg/kg	0.342	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.342	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.342	--	1
Benzo(ghi)perylene	ND		mg/kg	0.342	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-02
Client ID: TANKS 14&10-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 15:10
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	53		40-140
2-Fluorobiphenyl	65		40-140
2-Bromonaphthalene	65		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-03	Date Collected:	06/15/17 14:30
Client ID:	TANKS 14&10-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:14		
Analyst:	JM		
Percent Solids:	91%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1.9

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.77	--	1
C9-C12 Aliphatics	ND		mg/kg	1.77	--	1
C9-C10 Aromatics	ND		mg/kg	1.77	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.77	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.77	--	1
Benzene	ND		mg/kg	0.071	--	1
Toluene	ND		mg/kg	0.071	--	1
Ethylbenzene	ND		mg/kg	0.071	--	1
p/m-Xylene	ND		mg/kg	0.071	--	1
o-Xylene	ND		mg/kg	0.071	--	1
Methyl tert butyl ether	ND		mg/kg	0.035	--	1
Naphthalene	ND		mg/kg	0.142	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	101		70-130
2,5-Dibromotoluene-FID	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-03	Date Collected:	06/15/17 14:30
Client ID:	TANKS 14&10-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 18:32	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	91%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.24	--	1
C19-C36 Aliphatics	ND		mg/kg	7.24	--	1
C11-C22 Aromatics	ND		mg/kg	7.24	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.24	--	1
Naphthalene	ND		mg/kg	0.362	--	1
2-Methylnaphthalene	ND		mg/kg	0.362	--	1
Acenaphthylene	ND		mg/kg	0.362	--	1
Acenaphthene	ND		mg/kg	0.362	--	1
Fluorene	ND		mg/kg	0.362	--	1
Phenanthrene	ND		mg/kg	0.362	--	1
Anthracene	ND		mg/kg	0.362	--	1
Fluoranthene	ND		mg/kg	0.362	--	1
Pyrene	ND		mg/kg	0.362	--	1
Benzo(a)anthracene	ND		mg/kg	0.362	--	1
Chrysene	ND		mg/kg	0.362	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.362	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.362	--	1
Benzo(a)pyrene	ND		mg/kg	0.362	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.362	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.362	--	1
Benzo(ghi)perylene	ND		mg/kg	0.362	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-03
Client ID: TANKS 14&10-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 14:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	88		40-140
2-Fluorobiphenyl	99		40-140
2-Bromonaphthalene	99		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-04	Date Collected:	06/15/17 14:00
Client ID:	TANKS 14&10-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:54		
Analyst:	JM		
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1.9

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.53	--	1
C9-C12 Aliphatics	ND		mg/kg	1.53	--	1
C9-C10 Aromatics	ND		mg/kg	1.53	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.53	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.53	--	1
Benzene	ND		mg/kg	0.061	--	1
Toluene	ND		mg/kg	0.061	--	1
Ethylbenzene	ND		mg/kg	0.061	--	1
p/m-Xylene	ND		mg/kg	0.061	--	1
o-Xylene	ND		mg/kg	0.061	--	1
Methyl tert butyl ether	ND		mg/kg	0.031	--	1
Naphthalene	ND		mg/kg	0.123	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	93		70-130
2,5-Dibromotoluene-FID	94		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-04	Date Collected:	06/15/17 14:00
Client ID:	TANKS 14&10-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 19:10	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.71	--	1
C19-C36 Aliphatics	ND		mg/kg	6.71	--	1
C11-C22 Aromatics	ND		mg/kg	6.71	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.71	--	1
Naphthalene	ND		mg/kg	0.335	--	1
2-Methylnaphthalene	ND		mg/kg	0.335	--	1
Acenaphthylene	ND		mg/kg	0.335	--	1
Acenaphthene	ND		mg/kg	0.335	--	1
Fluorene	ND		mg/kg	0.335	--	1
Phenanthrene	ND		mg/kg	0.335	--	1
Anthracene	ND		mg/kg	0.335	--	1
Fluoranthene	ND		mg/kg	0.335	--	1
Pyrene	ND		mg/kg	0.335	--	1
Benzo(a)anthracene	ND		mg/kg	0.335	--	1
Chrysene	ND		mg/kg	0.335	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.335	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.335	--	1
Benzo(a)pyrene	ND		mg/kg	0.335	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.335	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.335	--	1
Benzo(ghi)perylene	ND		mg/kg	0.335	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-04
Client ID: TANKS 14&10-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 14:00
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	75		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-05	Date Collected:	06/15/17 13:50
Client ID:	TANKS 14&10-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 12:34		
Analyst:	JM		
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:2.0

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.46	--	1
C9-C12 Aliphatics	ND		mg/kg	1.46	--	1
C9-C10 Aromatics	ND		mg/kg	1.46	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.46	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.46	--	1
Benzene	ND		mg/kg	0.058	--	1
Toluene	ND		mg/kg	0.058	--	1
Ethylbenzene	ND		mg/kg	0.058	--	1
p/m-Xylene	ND		mg/kg	0.058	--	1
o-Xylene	ND		mg/kg	0.058	--	1
Methyl tert butyl ether	ND		mg/kg	0.029	--	1
Naphthalene	ND		mg/kg	0.117	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	89		70-130
2,5-Dibromotoluene-FID	90		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-05	Date Collected:	06/15/17 13:50
Client ID:	TANKS 14&10-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 19:48	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.72	--	1
C19-C36 Aliphatics	ND		mg/kg	6.72	--	1
C11-C22 Aromatics	ND		mg/kg	6.72	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.72	--	1
Naphthalene	ND		mg/kg	0.336	--	1
2-Methylnaphthalene	ND		mg/kg	0.336	--	1
Acenaphthylene	ND		mg/kg	0.336	--	1
Acenaphthene	ND		mg/kg	0.336	--	1
Fluorene	ND		mg/kg	0.336	--	1
Phenanthrene	ND		mg/kg	0.336	--	1
Anthracene	ND		mg/kg	0.336	--	1
Fluoranthene	ND		mg/kg	0.336	--	1
Pyrene	ND		mg/kg	0.336	--	1
Benzo(a)anthracene	ND		mg/kg	0.336	--	1
Chrysene	ND		mg/kg	0.336	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.336	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.336	--	1
Benzo(a)pyrene	ND		mg/kg	0.336	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.336	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.336	--	1
Benzo(ghi)perylene	ND		mg/kg	0.336	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-05	Date Collected:	06/15/17 13:50
Client ID:	TANKS 14&10-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	53		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	81		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-06	Date Collected:	06/16/17 11:30
Client ID:	TANK 6-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 10:31		
Analyst:	JM		
Percent Solids:	83%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	3.64	--	1
C9-C12 Aliphatics	ND		mg/kg	3.64	--	1
C9-C10 Aromatics	ND		mg/kg	3.64	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.64	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.64	--	1
Benzene	ND		mg/kg	0.146	--	1
Toluene	ND		mg/kg	0.146	--	1
Ethylbenzene	ND		mg/kg	0.146	--	1
p/m-Xylene	ND		mg/kg	0.146	--	1
o-Xylene	ND		mg/kg	0.146	--	1
Methyl tert butyl ether	ND		mg/kg	0.073	--	1
Naphthalene	ND		mg/kg	0.291	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	111		70-130
2,5-Dibromotoluene-FID	111		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-06	Date Collected:	06/16/17 11:30
Client ID:	TANK 6-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 20:27	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	83%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.97	--	1
C19-C36 Aliphatics	21.8		mg/kg	7.97	--	1
C11-C22 Aromatics	25.6		mg/kg	7.97	--	1
C11-C22 Aromatics, Adjusted	24.7		mg/kg	7.97	--	1
Naphthalene	ND		mg/kg	0.398	--	1
2-Methylnaphthalene	ND		mg/kg	0.398	--	1
Acenaphthylene	ND		mg/kg	0.398	--	1
Acenaphthene	ND		mg/kg	0.398	--	1
Fluorene	ND		mg/kg	0.398	--	1
Phenanthrene	ND		mg/kg	0.398	--	1
Anthracene	ND		mg/kg	0.398	--	1
Fluoranthene	0.415		mg/kg	0.398	--	1
Pyrene	0.420		mg/kg	0.398	--	1
Benzo(a)anthracene	ND		mg/kg	0.398	--	1
Chrysene	ND		mg/kg	0.398	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.398	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.398	--	1
Benzo(a)pyrene	ND		mg/kg	0.398	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.398	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.398	--	1
Benzo(ghi)perylene	ND		mg/kg	0.398	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-06
Client ID: TANK 6-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	71		40-140
2-Fluorobiphenyl	84		40-140
2-Bromonaphthalene	80		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-07	Date Collected:	06/16/17 11:35
Client ID:	TANK 6-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:10		
Analyst:	JM		
Percent Solids:	78%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	3.55	--	1
C9-C12 Aliphatics	ND		mg/kg	3.55	--	1
C9-C10 Aromatics	ND		mg/kg	3.55	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.55	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.55	--	1
Benzene	ND		mg/kg	0.142	--	1
Toluene	ND		mg/kg	0.142	--	1
Ethylbenzene	ND		mg/kg	0.142	--	1
p/m-Xylene	ND		mg/kg	0.142	--	1
o-Xylene	ND		mg/kg	0.142	--	1
Methyl tert butyl ether	ND		mg/kg	0.071	--	1
Naphthalene	ND		mg/kg	0.284	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	109		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-07	Date Collected:	06/16/17 11:35
Client ID:	TANK 6-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 21:05	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	78%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.22	--	1
C19-C36 Aliphatics	33.5		mg/kg	8.22	--	1
C11-C22 Aromatics	43.4		mg/kg	8.22	--	1
C11-C22 Aromatics, Adjusted	36.8		mg/kg	8.22	--	1
Naphthalene	ND		mg/kg	0.411	--	1
2-Methylnaphthalene	ND		mg/kg	0.411	--	1
Acenaphthylene	ND		mg/kg	0.411	--	1
Acenaphthene	ND		mg/kg	0.411	--	1
Fluorene	ND		mg/kg	0.411	--	1
Phenanthrene	0.723		mg/kg	0.411	--	1
Anthracene	ND		mg/kg	0.411	--	1
Fluoranthene	1.50		mg/kg	0.411	--	1
Pyrene	1.26		mg/kg	0.411	--	1
Benzo(a)anthracene	0.666		mg/kg	0.411	--	1
Chrysene	0.720		mg/kg	0.411	--	1
Benzo(b)fluoranthene	0.568		mg/kg	0.411	--	1
Benzo(k)fluoranthene	0.568		mg/kg	0.411	--	1
Benzo(a)pyrene	0.542		mg/kg	0.411	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.411	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.411	--	1
Benzo(ghi)perylene	ND		mg/kg	0.411	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-07
Client ID: TANK 6-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:35
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	70		40-140
2-Fluorobiphenyl	79		40-140
2-Bromonaphthalene	78		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-08	Date Collected:	06/16/17 11:40
Client ID:	TANK 6-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:50		
Analyst:	JM		
Percent Solids:	80%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	3.83	--	1
C9-C12 Aliphatics	ND		mg/kg	3.83	--	1
C9-C10 Aromatics	ND		mg/kg	3.83	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.83	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.83	--	1
Benzene	ND		mg/kg	0.153	--	1
Toluene	ND		mg/kg	0.153	--	1
Ethylbenzene	ND		mg/kg	0.153	--	1
p/m-Xylene	ND		mg/kg	0.153	--	1
o-Xylene	ND		mg/kg	0.153	--	1
Methyl tert butyl ether	0.318		mg/kg	0.077	--	1
Naphthalene	ND		mg/kg	0.306	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	105		70-130
2,5-Dibromotoluene-FID	106		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-08	Date Collected:	06/16/17 11:40
Client ID:	TANK 6-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 21:43	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	80%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	18.8		mg/kg	7.88	--	1
C19-C36 Aliphatics	228		mg/kg	7.88	--	1
C11-C22 Aromatics	135		mg/kg	7.88	--	1
C11-C22 Aromatics, Adjusted	126		mg/kg	7.88	--	1
Naphthalene	ND		mg/kg	0.394	--	1
2-Methylnaphthalene	ND		mg/kg	0.394	--	1
Acenaphthylene	ND		mg/kg	0.394	--	1
Acenaphthene	ND		mg/kg	0.394	--	1
Fluorene	ND		mg/kg	0.394	--	1
Phenanthrene	0.591		mg/kg	0.394	--	1
Anthracene	ND		mg/kg	0.394	--	1
Fluoranthene	1.24		mg/kg	0.394	--	1
Pyrene	1.18		mg/kg	0.394	--	1
Benzo(a)anthracene	0.684		mg/kg	0.394	--	1
Chrysene	1.08		mg/kg	0.394	--	1
Benzo(b)fluoranthene	1.15		mg/kg	0.394	--	1
Benzo(k)fluoranthene	0.865		mg/kg	0.394	--	1
Benzo(a)pyrene	0.701		mg/kg	0.394	--	1
Indeno(1,2,3-cd)Pyrene	0.621		mg/kg	0.394	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.394	--	1
Benzo(ghi)perylene	0.524		mg/kg	0.394	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-08
Client ID: TANK 6-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:40
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	84		40-140
2-Fluorobiphenyl	97		40-140
2-Bromonaphthalene	96		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-09	Date Collected:	06/16/17 11:45
Client ID:	TANK 6-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 12:29		
Analyst:	JM		
Percent Solids:	82%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Volatile Petroleum Hydrocarbons - Westborough Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
C5-C8 Aliphatics	ND		mg/kg	3.86	--	1
C9-C12 Aliphatics	ND		mg/kg	3.86	--	1
C9-C10 Aromatics	ND		mg/kg	3.86	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.86	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.86	--	1
Benzene	ND		mg/kg	0.154	--	1
Toluene	ND		mg/kg	0.154	--	1
Ethylbenzene	ND		mg/kg	0.154	--	1
p/m-Xylene	ND		mg/kg	0.154	--	1
o-Xylene	ND		mg/kg	0.154	--	1
Methyl tert butyl ether	ND		mg/kg	0.077	--	1
Naphthalene	ND		mg/kg	0.309	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	105		70-130
2,5-Dibromotoluene-FID	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-09	Date Collected:	06/16/17 11:45
Client ID:	TANK 6-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 22:21	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	82%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.04	--	1
C19-C36 Aliphatics	8.71		mg/kg	8.04	--	1
C11-C22 Aromatics	33.4		mg/kg	8.04	--	1
C11-C22 Aromatics, Adjusted	32.1		mg/kg	8.04	--	1
Naphthalene	ND		mg/kg	0.402	--	1
2-Methylnaphthalene	ND		mg/kg	0.402	--	1
Acenaphthylene	ND		mg/kg	0.402	--	1
Acenaphthene	ND		mg/kg	0.402	--	1
Fluorene	ND		mg/kg	0.402	--	1
Phenanthrene	ND		mg/kg	0.402	--	1
Anthracene	ND		mg/kg	0.402	--	1
Fluoranthene	0.682		mg/kg	0.402	--	1
Pyrene	0.620		mg/kg	0.402	--	1
Benzo(a)anthracene	ND		mg/kg	0.402	--	1
Chrysene	ND		mg/kg	0.402	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.402	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.402	--	1
Benzo(a)pyrene	ND		mg/kg	0.402	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.402	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.402	--	1
Benzo(ghi)perylene	ND		mg/kg	0.402	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-09
Client ID: TANK 6-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:45
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	91		40-140
2-Fluorobiphenyl	96		40-140
2-Bromonaphthalene	94		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-10	Date Collected:	06/16/17 11:50
Client ID:	TANK 6-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 13:08		
Analyst:	JM		
Percent Solids:	86%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	2.88	--	1
C9-C12 Aliphatics	ND		mg/kg	2.88	--	1
C9-C10 Aromatics	ND		mg/kg	2.88	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.88	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.88	--	1
Benzene	ND		mg/kg	0.115	--	1
Toluene	ND		mg/kg	0.115	--	1
Ethylbenzene	ND		mg/kg	0.115	--	1
p/m-Xylene	ND		mg/kg	0.115	--	1
o-Xylene	ND		mg/kg	0.115	--	1
Methyl tert butyl ether	0.068		mg/kg	0.058	--	1
Naphthalene	ND		mg/kg	0.230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	102		70-130
2,5-Dibromotoluene-FID	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-10	Date Collected:	06/16/17 11:50
Client ID:	TANK 6-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 23:00	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	86%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.63	--	1
C19-C36 Aliphatics	12.7		mg/kg	7.63	--	1
C11-C22 Aromatics	31.6		mg/kg	7.63	--	1
C11-C22 Aromatics, Adjusted	30.8		mg/kg	7.63	--	1
Naphthalene	ND		mg/kg	0.381	--	1
2-Methylnaphthalene	ND		mg/kg	0.381	--	1
Acenaphthylene	ND		mg/kg	0.381	--	1
Acenaphthene	ND		mg/kg	0.381	--	1
Fluorene	ND		mg/kg	0.381	--	1
Phenanthrene	ND		mg/kg	0.381	--	1
Anthracene	ND		mg/kg	0.381	--	1
Fluoranthene	0.439		mg/kg	0.381	--	1
Pyrene	0.407		mg/kg	0.381	--	1
Benzo(a)anthracene	ND		mg/kg	0.381	--	1
Chrysene	ND		mg/kg	0.381	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.381	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.381	--	1
Benzo(a)pyrene	ND		mg/kg	0.381	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.381	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.381	--	1
Benzo(ghi)perylene	ND		mg/kg	0.381	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-10
Client ID: TANK 6-BOTTOM
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:50
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	53		40-140
o-Terphenyl	88		40-140
2-Fluorobiphenyl	96		40-140
2-Bromonaphthalene	95		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 06/20/17 16:38
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 06/19/17 23:48
Cleanup Method: EPH-04-1
Cleanup Date: 06/20/17

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-10 Batch: WG1014740-1					
C9-C18 Aliphatics	ND		mg/kg	6.54	--
C19-C36 Aliphatics	ND		mg/kg	6.54	--
C11-C22 Aromatics	ND		mg/kg	6.54	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.54	--
Naphthalene	ND		mg/kg	0.327	--
2-Methylnaphthalene	ND		mg/kg	0.327	--
Acenaphthylene	ND		mg/kg	0.327	--
Acenaphthene	ND		mg/kg	0.327	--
Fluorene	ND		mg/kg	0.327	--
Phenanthrene	ND		mg/kg	0.327	--
Anthracene	ND		mg/kg	0.327	--
Fluoranthene	ND		mg/kg	0.327	--
Pyrene	ND		mg/kg	0.327	--
Benzo(a)anthracene	ND		mg/kg	0.327	--
Chrysene	ND		mg/kg	0.327	--
Benzo(b)fluoranthene	ND		mg/kg	0.327	--
Benzo(k)fluoranthene	ND		mg/kg	0.327	--
Benzo(a)pyrene	ND		mg/kg	0.327	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.327	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.327	--
Benzo(ghi)perylene	ND		mg/kg	0.327	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	50		40-140
2-Fluorobiphenyl	62		40-140
2-Bromonaphthalene	61		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 06/21/17 10:21
Analyst: JM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG1015436-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	99		70-130
2,5-Dibromotoluene-FID	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 06/22/17 09:53
Analyst: JM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 02-05 Batch: WG1015911-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	98		70-130
2,5-Dibromotoluene-FID	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 06/22/17 09:52
Analyst: JM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 06-10 Batch: WG1015927-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	102		70-130
2,5-Dibromotoluene-FID	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-10 Batch: WG1014740-2 WG1014740-3								
C9-C18 Aliphatics	70		67		40-140	4		25
C19-C36 Aliphatics	71		69		40-140	3		25
C11-C22 Aromatics	67		59		40-140	13		25
Naphthalene	57		56		40-140	2		25
2-Methylnaphthalene	57		56		40-140	2		25
Acenaphthylene	60		57		40-140	5		25
Acenaphthene	61		59		40-140	3		25
Fluorene	60		58		40-140	3		25
Phenanthrene	62		58		40-140	7		25
Anthracene	62		58		40-140	7		25
Fluoranthene	61		57		40-140	7		25
Pyrene	63		59		40-140	7		25
Benzo(a)anthracene	61		57		40-140	7		25
Chrysene	59		55		40-140	7		25
Benzo(b)fluoranthene	62		58		40-140	7		25
Benzo(k)fluoranthene	60		57		40-140	5		25
Benzo(a)pyrene	59		56		40-140	5		25
Indeno(1,2,3-cd)Pyrene	58		54		40-140	7		25
Dibenzo(a,h)anthracene	47		44		40-140	7		25
Benzo(ghi)perylene	56		52		40-140	7		25
Nonane (C9)	56		56		30-140	0		25
Decane (C10)	61		60		40-140	2		25
Dodecane (C12)	63		61		40-140	3		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-10 Batch: WG1014740-2 WG1014740-3								
Tetradecane (C14)	65		62		40-140	5		25
Hexadecane (C16)	67		64		40-140	5		25
Octadecane (C18)	68		66		40-140	3		25
Nonadecane (C19)	68		66		40-140	3		25
Eicosane (C20)	68		66		40-140	3		25
Docosane (C22)	68		66		40-140	3		25
Tetracosane (C24)	67		65		40-140	3		25
Hexacosane (C26)	67		65		40-140	3		25
Octacosane (C28)	66		64		40-140	3		25
Triacontane (C30)	65		64		40-140	2		25
Hexatriacontane (C36)	65		63		40-140	3		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	52		51		40-140
o-Terphenyl	62		58		40-140
2-Fluorobiphenyl	74		72		40-140
2-Bromonaphthalene	75		71		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG1015436-1 WG1015436-2								
C5-C8 Aliphatics	96		99		70-130	3		25
C9-C12 Aliphatics	102		104		70-130	2		25
C9-C10 Aromatics	100		102		70-130	2		25
Benzene	101		104		70-130	3		25
Toluene	102		104		70-130	2		25
Ethylbenzene	103		106		70-130	3		25
p/m-Xylene	101		104		70-130	3		25
o-Xylene	101		104		70-130	3		25
Methyl tert butyl ether	99		102		70-130	3		25
Naphthalene	99		101		70-130	2		25
1,2,4-Trimethylbenzene	100		102		70-130	2		25
Pentane	94		96		70-130	3		25
2-Methylpentane	98		101		70-130	3		25
2,2,4-Trimethylpentane	97		100		70-130	3		25
n-Nonane	101		103		30-130	2		25
n-Decane	103		105		70-130	2		25
n-Butylcyclohexane	102		104		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	96		97		70-130
2,5-Dibromotoluene-FID	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02-05 Batch: WG1015911-1 WG1015911-2								
C5-C8 Aliphatics	99		99		70-130	1		25
C9-C12 Aliphatics	105		104		70-130	1		25
C9-C10 Aromatics	102		100		70-130	2		25
Benzene	103		103		70-130	0		25
Toluene	104		103		70-130	1		25
Ethylbenzene	105		104		70-130	1		25
p/m-Xylene	104		102		70-130	2		25
o-Xylene	103		102		70-130	1		25
Methyl tert butyl ether	99		100		70-130	1		25
Naphthalene	98		98		70-130	1		25
1,2,4-Trimethylbenzene	102		101		70-130	1		25
Pentane	96		95		70-130	1		25
2-Methylpentane	101		101		70-130	0		25
2,2,4-Trimethylpentane	101		100		70-130	1		25
n-Nonane	104		103		30-130	1		25
n-Decane	106		104		70-130	2		25
n-Butylcyclohexane	106		104		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	97		95		70-130
2,5-Dibromotoluene-FID	97		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 06-10 Batch: WG1015927-1 WG1015927-2								
C5-C8 Aliphatics	90		93		70-130	3		25
C9-C12 Aliphatics	100		102		70-130	2		25
C9-C10 Aromatics	101		103		70-130	2		25
Benzene	93		96		70-130	3		25
Toluene	94		97		70-130	3		25
Ethylbenzene	97		100		70-130	3		25
p/m-Xylene	98		101		70-130	3		25
o-Xylene	96		99		70-130	3		25
Methyl tert butyl ether	93		96		70-130	3		25
Naphthalene	101		105		70-130	4		25
1,2,4-Trimethylbenzene	101		103		70-130	2		25
Pentane	83		86		70-130	3		25
2-Methylpentane	90		94		70-130	4		25
2,2,4-Trimethylpentane	95		98		70-130	3		25
n-Nonane	100		102		30-130	2		25
n-Decane	101		103		70-130	2		25
n-Butylcyclohexane	101		103		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	97		101		70-130
2,5-Dibromotoluene-FID	98		101		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-01
Client ID: TANKS 14&10-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 14:15
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-02
Client ID: TANKS 14&10-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 15:10
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-03
Client ID: TANKS 14&10-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/15/17 14:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-04
Client ID: TANKS 14&10-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 14:00
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.9		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-05
Client ID: TANKS 14&10-BOTTOM
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 13:50
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-06
Client ID: TANK 6-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/16/17 11:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-07
Client ID: TANK 6-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/16/17 11:35
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-08
Client ID: TANK 6-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/16/17 11:40
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-09
Client ID: TANK 6-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/16/17 11:45
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-10
Client ID: TANK 6-BOTTOM
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/16/17 11:50
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1015211-1 QC Sample: L1720575-01 Client ID: TANKS 14&10-NORTH						
Solids, Total	79.1	79.2	%	0		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

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(*)
L1720575-01A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-01B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-02A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-02B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-03A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-03B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-04A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-04B	Glass 500ml/16oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-05A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-05B	Glass 500ml/16oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-06A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-06B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-07A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-07B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-08A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-08B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-09A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-09B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-10A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-10B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1720575
Project Number:	171521.52	**Report Date:**	06/22/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1720575
Project Number:	171521.52	**Report Date:**	06/22/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1720575
Project Number:	171521.52	**Report Date:**	06/22/17

REFERENCES

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

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

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 6/20/17

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:

ALPHA Job #: L1720575

Client Information

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

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: ~~Wynn Boston Harbor~~ WYNN EVERETT
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: ~~ASAP~~ 3-Day Rush Time:

Other Project Specific Requirements/Comments/Detection Limits:

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

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

EPH | VPH w/ targets

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

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	EPH	VPH w/ targets											
20575 -01	Tanks 14 & 10 - North	6/15/17	1415	Soil	DRS	X	X											
-02	Tanks 14 & 10 - South		1510			X	X											
-03	Tanks 14 & 10 - East		1430			X	X											
-04	Tanks 14 & 10 - West		1400			X	X											
-05	Tanks 14 & 10 - Bottom	↓	1350	↓		X	X											
-06	Tank 6 - North	6/16/17	1130			X	X											
-07	Tank 6 - South		1135			X	X											
-08	Tank 6 - East		1140			X	X											
-09	Tank 6 - West		1145			X	X											
-10	Tank 6 - Bottom	↓	1150	↓	↓	X	X											

Container Type	8oz AD	VOA	-	-	-	-	-	-	-	-	-	-
Preservative	NP	MeOH	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/16/17 @ 1700		6/16/17 1135
	6/19/17 1545		6/19/17 1545

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.

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:

ALPHA Job #: L1720575

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: ~~ASAP~~ 3-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~~ Davide.leone@gza.com

☐ These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

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

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

EPH | VPH w/ targets

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

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
20575 -01	Tanks 14 & 10 - North	6/15/17	1415	Soil	DRS
-02	Tanks 14 & 10 - South		1510		
-03	Tanks 14 & 10 - East		1430		
-04	Tanks 14 & 10 - West		1400		
-05	Tanks 14 & 10 - Bottom		1350		
-06	Tank 6 - North	6/16/17	1130		
-07	Tank 6 - South		1135		
-08	Tank 6 - East		1140		
-09	Tank 6 - West		1145		
-10	Tank 6 - Bottom		1150		

Container Type	8oz AG	VOA	-	-	-	-	-	-	-	-	-	-
Preservative	NP	MeOH	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

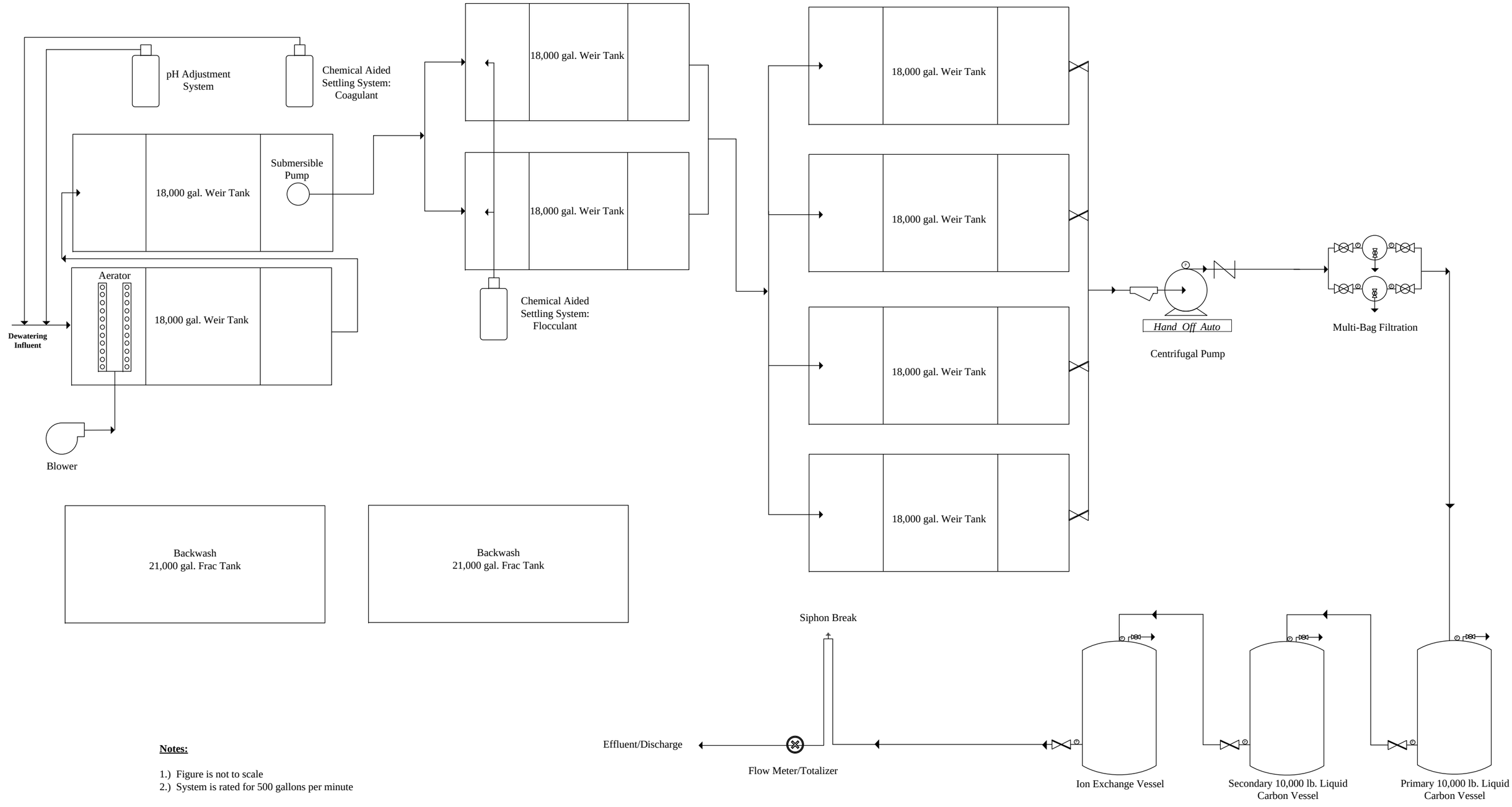
Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/16/17 @ 1700	[signature] AAB	6/16/17 1135
[signature]	6/19/17 1545	[signature]	6/19/17 1545

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.

Appendix D - Dewatering Documentation

Sample ID		Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Effluent	INFLUENT_(6.2.17)	EFFLUENT_(6.2.2017)	INFLUENT_(6.2.17)	EFFLUENT_(6.2.2017)	INFLUENT_6.29.17	EFFLUENT_6.29.17	MA - Saltwater 2010 RGP EFF Limits	Test Method and Minimum Level
Date		3/2/2017	3/2/2017	3/8/2017	3/8/2017	3/28/2017	3/28/2017	4/12/2017	4/12/2017	4/28/2017	4/28/2017	5/18/2017	6/2/2017	6/2/2017	6/2/2017	6/2/2017	6/29/2017	6/29/2017		
Laboratory Work Order		1703039	1703039	1703178	1703178	1703683	1703683	1704303	1704303	1704793	1704793	L1716290	L1718226	L1718226	L1718229	L1718229	L1722393	L1722225		
Day		262	262	268	268	288	288	303	303	319	319	339	354	354	354	354	381	381		
Parameter	**units**																			
Total Suspended Solids (TSS)	mg/L	15	5	--	--	22	11	--	--	**31**	**16**	**N/A**	BDL (5.0)	BDL (5.0)	--	--	43	BDL (5.0)	30 mg/L	SM 2540D (5 mg/L)
Cyanide (CN)	ug/L	**50**	BDL (5.0)	--	--	**113**	**14.8**	BDL (5.0)	BDL (5.0)	**28.4**	**BDL (5.0)**	**N/A**	21	**7**	--	--	15	**8**	1.0 ug/l	Method 335.4 (5 ug/L)
1,2 Dichloroethane (DCA)	ug/L	BDL (1.0)	**9**	BDL (1.0)	BDL (1.0)	BDL (1.0)	BDL (1.0)	--	--	BDL (1.0)	BDL (1.0)	N/A	BDL (0.50)	BDL (0.50)	--	--	BDL (0.50)	BDL (0.50)	5.0 ug/l	Method 624 (5 ug/L); Method 8260C (5 ug/L)
Trichloroethene (TCE)	ug/L	BDL (1.0)	BDL (1.0)	--	--	BDL (1.0)	BDL (1.0)	--	--	BDL (1.0)	BDL (1.0)	N/A	BDL (0.50)	BDL (0.50)	--	--	BDL (0.50)	BDL (0.50)	5.0 ug/l	Method 624 (5 ug/L); Method 8260C (5 ug/L)
1,4-Dioxane	ug/L	0.677	0.523	--	--	BDL (0.250)	0.361	--	--	0.828	0.582	N/A	BDL (3.0)	BDL (3.0)	--	--	BDL (3.0)	BDL (3.0)	Monitor Only	Method 522 (0.1 ug/L); Method 8260C (50 ug/L)
Fluorene	ug/L	0.26	BDL (0.19)	--	--	BDL (0.21)	BDL (0.19)	--	--	BDL (0.2)	BDL (0.19)	N/A	BDL (0.10)	BDL (0.10)	--	--	BDL (0.10)	BDL (0.10)	Total PAH = 100 ug/l	Method 625 (5 ug/L); 8270D (5 ug/L)
Chloride	mg/L	4650	3850	--	--	1600	4460	--	--	5000	4940	N/A	3400	4800	--	--	4900	4640	Monitor Only	Method 300.0 (0.1 mg/L)
Arsenic	ug/L	**232**	BDL (50)	--	--	**323**	BDL (4.0)	--	--	**78.2**	**14.4**	**N/A**	BDL (1.0)	BDL (1.0)	--	--	63.5	BDL (1.0)	36 ug/l	Method 6010C (20 ug/L); 7010 (3 ug/L); 6020A (1.0 ug/L)
Cadmium	ug/L	BDL (5.0)	BDL (5.0)	--	--	1.8	0.6	--	--	BDL (0.5)	BDL (0.5)	N/A	2.05	BDL (0.2)	--	--	0.73	BDL (0.20)	8.9 ug/l	Method 7010 (0.5 ug/L); 6020A (0.2 ug/L)
Chromium III	ug/L	BDL (20)	BDL (20)	--	--	BDL (10)	BDL (10)	--	--	BDL (10)	BDL (10)	N/A	BDL (10)	BDL (10)	--	--	BDL (10)	BDL (10)	100 ug/l	Method 6010C (15 ug/L)
Copper	ug/L	BDL (20)	BDL (20)	--	--	BDL (8.0)	**11.8**	BDL (20.0)	**53.1**	BDL (4.0)	24.8	20.4	7.21	**18.35**	**--**	**--**	38.1	**19.8**	3.7 ug/l	Method 6010C (15 ug/L); 6020A (0.5 ug/L)
Iron	ug/L	**333000**	240	--	--	**180,000**	116	--	--	**66700**	**292**	**N/A**	378	57	--	--	74400	BDL (50)	1,000 ug/l	Method 6010C (20 ug/L)
Lead	ug/L	**22.3**	BDL (20)	--	--	BDL (2.0)	BDL (2.0)	--	--	BDL (4.0)	9.7	1.3	BDL (1.0)	1.21	**--**	--	1.76	**8.6**	8.5 ug/l	Method 6010C (20 ug/L); 7010 (3 ug/L); 6020A (0.2 ug/L)
Nickel	ug/L	**58.1**	BDL (20)	--	--	BDL (8.0)	BDL (8.0)	--	--	BDL (4.0)	BDL (4.0)	N/A	6.34	6.62	--	--	8.8	3.56	8.2 ug/l	Method 6010C (20 ug/L); 6020A (0.2 ug/L)
Zinc	ug/L	**694**	BDL (50)	--	--	**258**	BDL (20.0)	--	--	32.8	BDL (10)	N/A	96.3	**132.9**	--	--	261	**401**	85.6 ug/l	Method 6010C (15 ug/L); 6020A (5 ug/L)
Hardness	mg/L	2.99	1.74	--	--	1.15	1.74	--	--	2.89	2.61	N/A	1770	1980	--	--	2150	1670	N/A	N/A

Notes:
1. BDL = below detection limit noted in parantheses.
BOLD = exceeds RGP effluent limits
N/A = not applicable; SM = standard method
2. Hardness is not a paramater that requires sampling



Notes:

1.) Figure is not to scale
2.) System is rated for 500 gallons per minute

Lockwood Remediation Technologies, LLC **89 Crawford Street** **Leominster, MA 01453** **Office: 774-450-7177**	**Water Treatment System #2 Schematic**	**Wynn Casino** **One Horizon Way** **Everett, Massachusetts**	**PROJECT No.** 2-1387
DESIGNED BY: LRT **DRAWN BY:** B.W. **CHECKED BY:** **DATE:** 12-7-16		**J. Derenzo Company** **338 Howard Street** **Brockton, Massachusetts 02302**	**FIGURE No.**

Appendix E - Laboratory Reports

(Supporting Documentation Transaction for RAM Status Report #2 Transaction 948807)

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ANALYTICAL REPORT

Lab Number:	L1703751
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:	02/12/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NH (2003), NY (1114 (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1703751
Report Date: 02/12/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1703751-01	SHORELINE STOCKPILE-4A	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:00	02/06/17
L1703751-02	SHORELINE STOCKPILE-4B	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:05	02/06/17
L1703751-03	SHORELINE STOCKPILE-4C	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:10	02/06/17
L1703751-04	SHORELINE STOCKPILE-4D	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:15	02/06/17
L1703751-05	SHORELINE STOCKPILE-4E	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:20	02/06/17
L1703751-06	SHORELINE STOCKPILE-4F	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:25	02/06/17

Project Name: WYNN EVERETT
Lab Number: L1703751
Project Number: 171521.52
Report Date: 02/12/17

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: L1703751
Report Date: 02/12/17

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:** L1703751
Project Number: 171521.52 **Report Date:** 02/12/17

Case Narrative (continued)

Report Submission

This final report replaces the partial report issued February 10, 2017, and includes the results of all requested analyses.

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question G:

L1703751-03 and -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1703751-03 and -04, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0020), as well as the average response factor for 1,4-dioxane.

The continuing calibration standards, associated with L1703751-01 through -06, 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.

Semivolatile Organics

In reference to question H:

The surrogate recoveries for the following samples were outside the acceptance criteria; however, re-extraction achieved similar results. The results of both extractions are reported; however, all associated compounds are considered to have a potential bias:

L1703751-02: 2-fluorophenol (23%), nitrobenzene-d5 (29%), and 2,4,6-tribromophenol (3%)

L1703751-02RE: 2-fluorophenol (28%), phenol-d6 (29%), nitrobenzene-d5 (28%), 2-fluorobiphenyl (19%), 2,4,6-tribromophenol (23%), and 4-terphenyl-d14 (14%)

Project Name: WYNN EVERETT **Lab Number:** L1703751
Project Number: 171521.52 **Report Date:** 02/12/17

Case Narrative (continued)

L1703751-04: 2-fluorophenol (13%), phenol-d6 (25%), nitrobenzene-d5 (18%), 2-fluorobiphenyl (27%), and 2,4,6-tribromophenol (12%)
L1703751-04RE: 2-fluorophenol (24%), phenol-d6 (28%), nitrobenzene-d5 (28%), 2-fluorobiphenyl (21%), 2,4,6-tribromophenol (22%), and 4-terphenyl-d14 (17%)
L1703751-05: 2-fluorophenol (21%), phenol-d6 (27%), nitrobenzene-d5 (25%), 2-fluorobiphenyl (27%), 2,4,6-tribromophenol (29%), and 4-terphenyl-d14 (26%)
L1703751-05RE: 2-fluorophenol (6%), phenol-d6 (14%), nitrobenzene-d5 (11%), 2-fluorobiphenyl (16%), 2,4,6-tribromophenol (24%), and 4-terphenyl-d14 (22%)

Pesticides
A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.
L1703751-01, -04, and -06: 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:
One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides
L1703751-01 through -06: The sample has elevated detection limits due to the dilution required by the sample matrix.
In reference to question G:
One or more of the target analytes did not achieve the requested CAM reporting limits.
In reference to question H:
L1703751-01 through -06: 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.
The WG975800-2/-3 LCS/LCSD recoveries, associated with L1703751-01 through -06, are below the acceptance criteria for dinoseb (7%/6%); however, the recoveries are due to a noted method interference

Project Name:	WYNN EVERETT	**Lab Number:**	L1703751
Project Number:	171521.52	**Report Date:**	02/12/17

Case Narrative (continued)

caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 02/12/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/07/17 20:34
Analyst: TE
Percent Solids: 79%

Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.77	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.77	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.77	--	1
Chlorobenzene	ND		ug/kg	0.77	--	1
Trichlorofluoromethane	ND		ug/kg	3.1	--	1
1,2-Dichloroethane	ND		ug/kg	0.77	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	--	1
Bromodichloromethane	ND		ug/kg	0.77	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.77	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.77	--	1
1,1-Dichloropropene	ND		ug/kg	3.1	--	1
Bromoform	ND		ug/kg	3.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	--	1
Benzene	ND		ug/kg	0.77	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	1.0		ug/kg	0.77	--	1
Chloromethane	ND		ug/kg	3.1	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.77	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	ND		ug/kg	0.77	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01 Date Collected: 02/06/17 10:00

Client ID: SHORELINE STOCKPILE-4A Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	5.3		ug/kg	1.5	--	1
o-Xylene	3.2		ug/kg	1.5	--	1
Xylenes, Total	8.5		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.77	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.77	--	1
Dibromomethane	ND		ug/kg	3.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.7	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	8.7		ug/kg	3.1	--	1
Methyl ethyl ketone	ND		ug/kg	7.7	--	1
Methyl isobutyl ketone	ND		ug/kg	7.7	--	1
2-Hexanone	ND		ug/kg	7.7	--	1
Bromochloromethane	ND		ug/kg	3.1	--	1
Tetrahydrofuran	ND		ug/kg	3.1	--	1
2,2-Dichloropropane	ND		ug/kg	3.9	--	1
1,2-Dibromoethane	ND		ug/kg	3.1	--	1
1,3-Dichloropropane	ND		ug/kg	3.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.77	--	1
Bromobenzene	ND		ug/kg	3.9	--	1
n-Butylbenzene	ND		ug/kg	0.77	--	1
sec-Butylbenzene	ND		ug/kg	0.77	--	1
tert-Butylbenzene	ND		ug/kg	3.1	--	1
o-Chlorotoluene	ND		ug/kg	3.1	--	1
p-Chlorotoluene	ND		ug/kg	3.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	3.1	--	1
Isopropylbenzene	ND		ug/kg	0.77	--	1
p-Isopropyltoluene	3.2		ug/kg	0.77	--	1
Naphthalene	55		ug/kg	3.1	--	1
n-Propylbenzene	ND		ug/kg	0.77	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01 Date Collected: 02/06/17 10:00

Client ID: SHORELINE STOCKPILE-4A Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.9	--	1
Diisopropyl Ether	ND		ug/kg	3.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.1	--	1
1,4-Dioxane	ND		ug/kg	31	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	95		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/07/17 21:01
Analyst: TE
Percent Solids: 76%

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.3	--	1
1,1-Dichloroethane	ND		ug/kg	1.4	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.93	--	1
1,2-Dichloropropane	ND		ug/kg	3.3	--	1
Dibromochloromethane	ND		ug/kg	0.93	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	--	1
Tetrachloroethene	ND		ug/kg	0.93	--	1
Chlorobenzene	ND		ug/kg	0.93	--	1
Trichlorofluoromethane	ND		ug/kg	3.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.93	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.93	--	1
Bromodichloromethane	ND		ug/kg	0.93	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.93	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.93	--	1
1,1-Dichloropropene	ND		ug/kg	3.7	--	1
Bromoform	ND		ug/kg	3.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.93	--	1
Benzene	ND		ug/kg	0.93	--	1
Toluene	ND		ug/kg	1.4	--	1
Ethylbenzene	8.3		ug/kg	0.93	--	1
Chloromethane	ND		ug/kg	3.7	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	1.9	--	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
Trichloroethene	ND		ug/kg	0.93	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.7	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02 Date Collected: 02/06/17 10:05

Client ID: SHORELINE STOCKPILE-4B Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	35		ug/kg	1.9	--	1
o-Xylene	16		ug/kg	1.9	--	1
Xylenes, Total	51		ug/kg	1.9	--	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	3.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.7	--	1
Styrene	ND		ug/kg	1.9	--	1
Dichlorodifluoromethane	ND		ug/kg	9.3	--	1
Acetone	130		ug/kg	34	--	1
Carbon disulfide	16		ug/kg	3.7	--	1
Methyl ethyl ketone	17		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	3.7	--	1
Tetrahydrofuran	ND		ug/kg	3.7	--	1
2,2-Dichloropropane	ND		ug/kg	4.7	--	1
1,2-Dibromoethane	ND		ug/kg	3.7	--	1
1,3-Dichloropropane	ND		ug/kg	3.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.93	--	1
Bromobenzene	ND		ug/kg	4.7	--	1
n-Butylbenzene	ND		ug/kg	0.93	--	1
sec-Butylbenzene	ND		ug/kg	0.93	--	1
tert-Butylbenzene	ND		ug/kg	3.7	--	1
o-Chlorotoluene	ND		ug/kg	3.7	--	1
p-Chlorotoluene	ND		ug/kg	3.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	--	1
Hexachlorobutadiene	ND		ug/kg	3.7	--	1
Isopropylbenzene	ND		ug/kg	0.93	--	1
p-Isopropyltoluene	10		ug/kg	0.93	--	1
Naphthalene	47		ug/kg	3.7	--	1
n-Propylbenzene	ND		ug/kg	0.93	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.7	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02 Date Collected: 02/06/17 10:05

Client ID: SHORELINE STOCKPILE-4B Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.7	--	1
Diisopropyl Ether	ND		ug/kg	3.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.7	--	1
1,4-Dioxane	ND		ug/kg	37	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	92		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/08/17 17:11
Analyst: TE
Percent Solids: 81%

Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	390	--	1
1,1-Dichloroethane	ND		ug/kg	59	--	1
Chloroform	ND		ug/kg	59	--	1
Carbon tetrachloride	ND		ug/kg	39	--	1
1,2-Dichloropropane	ND		ug/kg	140	--	1
Dibromochloromethane	ND		ug/kg	39	--	1
1,1,2-Trichloroethane	ND		ug/kg	59	--	1
Tetrachloroethene	ND		ug/kg	39	--	1
Chlorobenzene	ND		ug/kg	39	--	1
Trichlorofluoromethane	ND		ug/kg	160	--	1
1,2-Dichloroethane	ND		ug/kg	39	--	1
1,1,1-Trichloroethane	ND		ug/kg	39	--	1
Bromodichloromethane	ND		ug/kg	39	--	1
trans-1,3-Dichloropropene	ND		ug/kg	39	--	1
cis-1,3-Dichloropropene	ND		ug/kg	39	--	1
1,3-Dichloropropene, Total	ND		ug/kg	39	--	1
1,1-Dichloropropene	ND		ug/kg	160	--	1
Bromoform	ND		ug/kg	160	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	39	--	1
Benzene	ND		ug/kg	39	--	1
Toluene	ND		ug/kg	59	--	1
Ethylbenzene	ND		ug/kg	39	--	1
Chloromethane	ND		ug/kg	160	--	1
Bromomethane	ND		ug/kg	78	--	1
Vinyl chloride	ND		ug/kg	78	--	1
Chloroethane	ND		ug/kg	78	--	1
1,1-Dichloroethene	ND		ug/kg	39	--	1
trans-1,2-Dichloroethene	ND		ug/kg	59	--	1
Trichloroethene	ND		ug/kg	39	--	1
1,2-Dichlorobenzene	ND		ug/kg	160	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03 Date Collected: 02/06/17 10:10

Client ID: SHORELINE STOCKPILE-4C Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	160	--	1
1,4-Dichlorobenzene	ND		ug/kg	160	--	1
Methyl tert butyl ether	ND		ug/kg	78	--	1
p/m-Xylene	ND		ug/kg	78	--	1
o-Xylene	ND		ug/kg	78	--	1
Xylenes, Total	ND		ug/kg	78	--	1
cis-1,2-Dichloroethene	ND		ug/kg	39	--	1
1,2-Dichloroethene, Total	ND		ug/kg	39	--	1
Dibromomethane	ND		ug/kg	160	--	1
1,2,3-Trichloropropane	ND		ug/kg	160	--	1
Styrene	ND		ug/kg	78	--	1
Dichlorodifluoromethane	ND		ug/kg	390	--	1
Acetone	ND		ug/kg	1400	--	1
Carbon disulfide	ND		ug/kg	160	--	1
Methyl ethyl ketone	ND		ug/kg	390	--	1
Methyl isobutyl ketone	ND		ug/kg	390	--	1
2-Hexanone	ND		ug/kg	390	--	1
Bromochloromethane	ND		ug/kg	160	--	1
Tetrahydrofuran	ND		ug/kg	160	--	1
2,2-Dichloropropane	ND		ug/kg	200	--	1
1,2-Dibromoethane	ND		ug/kg	160	--	1
1,3-Dichloropropane	ND		ug/kg	160	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	39	--	1
Bromobenzene	ND		ug/kg	200	--	1
n-Butylbenzene	ND		ug/kg	39	--	1
sec-Butylbenzene	ND		ug/kg	39	--	1
tert-Butylbenzene	ND		ug/kg	160	--	1
o-Chlorotoluene	ND		ug/kg	160	--	1
p-Chlorotoluene	ND		ug/kg	160	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	160	--	1
Isopropylbenzene	ND		ug/kg	39	--	1
p-Isopropyltoluene	42		ug/kg	39	--	1
Naphthalene	1200		ug/kg	160	--	1
n-Propylbenzene	ND		ug/kg	39	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	160	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	160	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	160	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03 Date Collected: 02/06/17 10:10

Client ID: SHORELINE STOCKPILE-4C Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	200	--	1
Diisopropyl Ether	ND		ug/kg	160	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	160	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	160	--	1
1,4-Dioxane	ND		ug/kg	3900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/08/17 17:36
Analyst: TE
Percent Solids: 79%

Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	440	--	1
1,1-Dichloroethane	ND		ug/kg	66	--	1
Chloroform	ND		ug/kg	66	--	1
Carbon tetrachloride	ND		ug/kg	44	--	1
1,2-Dichloropropane	ND		ug/kg	150	--	1
Dibromochloromethane	ND		ug/kg	44	--	1
1,1,2-Trichloroethane	ND		ug/kg	66	--	1
Tetrachloroethene	ND		ug/kg	44	--	1
Chlorobenzene	ND		ug/kg	44	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	44	--	1
1,1,1-Trichloroethane	ND		ug/kg	44	--	1
Bromodichloromethane	ND		ug/kg	44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	44	--	1
cis-1,3-Dichloropropene	ND		ug/kg	44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	44	--	1
1,1-Dichloropropene	ND		ug/kg	180	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	44	--	1
Benzene	ND		ug/kg	44	--	1
Toluene	ND		ug/kg	66	--	1
Ethylbenzene	ND		ug/kg	44	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	88	--	1
Vinyl chloride	ND		ug/kg	88	--	1
Chloroethane	ND		ug/kg	88	--	1
1,1-Dichloroethene	ND		ug/kg	44	--	1
trans-1,2-Dichloroethene	ND		ug/kg	66	--	1
Trichloroethene	ND		ug/kg	44	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04 Date Collected: 02/06/17 10:15

Client ID: SHORELINE STOCKPILE-4D Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
Methyl tert butyl ether	ND		ug/kg	88	--	1
p/m-Xylene	ND		ug/kg	88	--	1
o-Xylene	ND		ug/kg	88	--	1
Xylenes, Total	ND		ug/kg	88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	44	--	1
1,2-Dichloroethene, Total	ND		ug/kg	44	--	1
Dibromomethane	ND		ug/kg	180	--	1
1,2,3-Trichloropropane	ND		ug/kg	180	--	1
Styrene	ND		ug/kg	88	--	1
Dichlorodifluoromethane	ND		ug/kg	440	--	1
Acetone	ND		ug/kg	1600	--	1
Carbon disulfide	ND		ug/kg	180	--	1
Methyl ethyl ketone	ND		ug/kg	440	--	1
Methyl isobutyl ketone	ND		ug/kg	440	--	1
2-Hexanone	ND		ug/kg	440	--	1
Bromochloromethane	ND		ug/kg	180	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	220	--	1
1,2-Dibromoethane	ND		ug/kg	180	--	1
1,3-Dichloropropane	ND		ug/kg	180	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	44	--	1
Bromobenzene	ND		ug/kg	220	--	1
n-Butylbenzene	ND		ug/kg	44	--	1
sec-Butylbenzene	ND		ug/kg	44	--	1
tert-Butylbenzene	ND		ug/kg	180	--	1
o-Chlorotoluene	ND		ug/kg	180	--	1
p-Chlorotoluene	ND		ug/kg	180	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	44	--	1
p-Isopropyltoluene	56		ug/kg	44	--	1
Naphthalene	1300		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	44	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	180	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	180	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04 Date Collected: 02/06/17 10:15

Client ID: SHORELINE STOCKPILE-4D Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	220	--	1
Diisopropyl Ether	ND		ug/kg	180	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	180	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	180	--	1
1,4-Dioxane	ND		ug/kg	4400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	94		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/07/17 21:27
Analyst: TE
Percent Solids: 79%

Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.78	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.78	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.78	--	1
Chlorobenzene	ND		ug/kg	0.78	--	1
Trichlorofluoromethane	ND		ug/kg	3.1	--	1
1,2-Dichloroethane	ND		ug/kg	0.78	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	--	1
Bromodichloromethane	ND		ug/kg	0.78	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	--	1
1,1-Dichloropropene	ND		ug/kg	3.1	--	1
Bromoform	ND		ug/kg	3.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Benzene	ND		ug/kg	0.78	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	2.5		ug/kg	0.78	--	1
Chloromethane	ND		ug/kg	3.1	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.78	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	ND		ug/kg	0.78	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05 Date Collected: 02/06/17 10:20

Client ID: SHORELINE STOCKPILE-4E Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	--	1
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	12		ug/kg	1.6	--	1
o-Xylene	7.2		ug/kg	1.6	--	1
Xylenes, Total	19		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.78	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.78	--	1
Dibromomethane	ND		ug/kg	3.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	7.8	--	1
Acetone	31		ug/kg	28	--	1
Carbon disulfide	6.3		ug/kg	3.1	--	1
Methyl ethyl ketone	ND		ug/kg	7.8	--	1
Methyl isobutyl ketone	ND		ug/kg	7.8	--	1
2-Hexanone	ND		ug/kg	7.8	--	1
Bromochloromethane	ND		ug/kg	3.1	--	1
Tetrahydrofuran	ND		ug/kg	3.1	--	1
2,2-Dichloropropane	ND		ug/kg	3.9	--	1
1,2-Dibromoethane	ND		ug/kg	3.1	--	1
1,3-Dichloropropane	ND		ug/kg	3.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Bromobenzene	ND		ug/kg	3.9	--	1
n-Butylbenzene	ND		ug/kg	0.78	--	1
sec-Butylbenzene	ND		ug/kg	0.78	--	1
tert-Butylbenzene	ND		ug/kg	3.1	--	1
o-Chlorotoluene	ND		ug/kg	3.1	--	1
p-Chlorotoluene	ND		ug/kg	3.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	3.1	--	1
Isopropylbenzene	ND		ug/kg	0.78	--	1
p-Isopropyltoluene	7.2		ug/kg	0.78	--	1
Naphthalene	87		ug/kg	3.1	--	1
n-Propylbenzene	ND		ug/kg	0.78	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05 Date Collected: 02/06/17 10:20

Client ID: SHORELINE STOCKPILE-4E Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.9	--	1
Diisopropyl Ether	ND		ug/kg	3.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.1	--	1
1,4-Dioxane	ND		ug/kg	31	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	92		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/07/17 21:54
Analyst: TE
Percent Solids: 76%

Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.75	--	1
1,2-Dichloropropane	ND		ug/kg	2.6	--	1
Dibromochloromethane	ND		ug/kg	0.75	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.75	--	1
Chlorobenzene	ND		ug/kg	0.75	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.75	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	--	1
Bromodichloromethane	ND		ug/kg	0.75	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.75	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	--	1
1,1-Dichloropropene	ND		ug/kg	3.0	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	--	1
Benzene	ND		ug/kg	0.75	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	1.8		ug/kg	0.75	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.75	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.75	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06 Date Collected: 02/06/17 10:25

Client ID: SHORELINE STOCKPILE-4F Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	9.1		ug/kg	1.5	--	1
o-Xylene	4.9		ug/kg	1.5	--	1
Xylenes, Total	14		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.75	--	1
Dibromomethane	ND		ug/kg	3.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.5	--	1
Acetone	ND		ug/kg	27	--	1
Carbon disulfide	3.3		ug/kg	3.0	--	1
Methyl ethyl ketone	ND		ug/kg	7.5	--	1
Methyl isobutyl ketone	ND		ug/kg	7.5	--	1
2-Hexanone	ND		ug/kg	7.5	--	1
Bromochloromethane	ND		ug/kg	3.0	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	3.8	--	1
1,2-Dibromoethane	ND		ug/kg	3.0	--	1
1,3-Dichloropropane	ND		ug/kg	3.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	--	1
Bromobenzene	ND		ug/kg	3.8	--	1
n-Butylbenzene	ND		ug/kg	0.75	--	1
sec-Butylbenzene	ND		ug/kg	0.75	--	1
tert-Butylbenzene	ND		ug/kg	3.0	--	1
o-Chlorotoluene	ND		ug/kg	3.0	--	1
p-Chlorotoluene	ND		ug/kg	3.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.75	--	1
p-Isopropyltoluene	ND		ug/kg	0.75	--	1
Naphthalene	3.5		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.75	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06 Date Collected: 02/06/17 10:25

Client ID: SHORELINE STOCKPILE-4F Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.8	--	1
Diisopropyl Ether	ND		ug/kg	3.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.0	--	1
1,4-Dioxane	ND		ug/kg	30	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	91		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/07/17 13:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,05-06 Batch: WG976240-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/07/17 13:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,05-06 Batch: WG976240-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/07/17 13:09
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,05-06 Batch: WG976240-5					
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	89		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/08/17 09:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG976646-5					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/08/17 09:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG976646-5					
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/08/17 09:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG976646-5					
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Diethyl ether	ND		ug/kg	250	--
Diisopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	5000	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Halothane	ND		ug/kg	2000	--
Ethyl Acetate	ND		ug/kg	1000	--
Freon-113	ND		ug/kg	1000	--
Vinyl acetate	ND		ug/kg	500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,05-06 Batch: WG976240-3 WG976240-4								
Methylene chloride	96		97		70-130	1		20
1,1-Dichloroethane	96		97		70-130	1		20
Chloroform	91		92		70-130	1		20
Carbon tetrachloride	87		90		70-130	3		20
1,2-Dichloropropane	97		98		70-130	1		20
Dibromochloromethane	90		92		70-130	2		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	103		101		70-130	2		20
Chlorobenzene	94		95		70-130	1		20
Trichlorofluoromethane	98		96		70-130	2		20
1,2-Dichloroethane	86		87		70-130	1		20
1,1,1-Trichloroethane	91		92		70-130	1		20
Bromodichloromethane	89		91		70-130	2		20
trans-1,3-Dichloropropene	88		90		70-130	2		20
cis-1,3-Dichloropropene	92		93		70-130	1		20
1,1-Dichloropropene	97		96		70-130	1		20
Bromoform	88		90		70-130	2		20
1,1,2,2-Tetrachloroethane	90		90		70-130	0		20
Benzene	95		96		70-130	1		20
Toluene	93		94		70-130	1		20
Ethylbenzene	98		98		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,05-06 Batch: WG976240-3 WG976240-4								
Chloromethane	83		83		70-130	0		20
Bromomethane	112		112		70-130	0		20
Vinyl chloride	101		99		70-130	2		20
Chloroethane	92		91		70-130	1		20
1,1-Dichloroethene	99		98		70-130	1		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	95		96		70-130	1		20
1,2-Dichlorobenzene	91		93		70-130	2		20
1,3-Dichlorobenzene	91		94		70-130	3		20
1,4-Dichlorobenzene	91		93		70-130	2		20
Methyl tert butyl ether	103		104		70-130	1		20
p/m-Xylene	97		98		70-130	1		20
o-Xylene	91		91		70-130	0		20
cis-1,2-Dichloroethene	96		97		70-130	1		20
Dibromomethane	91		92		70-130	1		20
1,2,3-Trichloropropane	85		88		70-130	3		20
Styrene	93		93		70-130	0		20
Dichlorodifluoromethane	86		84		70-130	2		20
Acetone	83		79		70-130	5		20
Carbon disulfide	94		91		70-130	3		20
Methyl ethyl ketone	84		82		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,05-06 Batch: WG976240-3 WG976240-4								
Methyl isobutyl ketone	100		101		70-130	1		20
2-Hexanone	87		85		70-130	2		20
Bromochloromethane	98		98		70-130	0		20
Tetrahydrofuran	101		101		70-130	0		20
2,2-Dichloropropane	91		90		70-130	1		20
1,2-Dibromoethane	93		94		70-130	1		20
1,3-Dichloropropane	93		94		70-130	1		20
1,1,1,2-Tetrachloroethane	90		92		70-130	2		20
Bromobenzene	93		95		70-130	2		20
n-Butylbenzene	92		93		70-130	1		20
sec-Butylbenzene	93		93		70-130	0		20
tert-Butylbenzene	92		93		70-130	1		20
o-Chlorotoluene	89		90		70-130	1		20
p-Chlorotoluene	88		91		70-130	3		20
1,2-Dibromo-3-chloropropane	83		86		70-130	4		20
Hexachlorobutadiene	104		104		70-130	0		20
Isopropylbenzene	92		93		70-130	1		20
p-Isopropyltoluene	91		92		70-130	1		20
Naphthalene	83		86		70-130	4		20
n-Propylbenzene	91		92		70-130	1		20
1,2,3-Trichlorobenzene	95		97		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,05-06 Batch: WG976240-3 WG976240-4								
1,2,4-Trichlorobenzene	97		100		70-130	3		20
1,3,5-Trimethylbenzene	87		88		70-130	1		20
1,2,4-Trimethylbenzene	90		90		70-130	0		20
Diethyl ether	87		90		70-130	3		20
Diisopropyl Ether	95		95		70-130	0		20
Ethyl-Tert-Butyl-Ether	**181**	Q	**182**	Q	70-130	1		20
Tertiary-Amyl Methyl Ether	**369**	Q	**367**	Q	70-130	1		20
1,4-Dioxane	95		94		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		88		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	92		93		70-130
Dibromofluoromethane	93		94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG976646-3 WG976646-4								
Methylene chloride	101		98		70-130	3		20
1,1-Dichloroethane	103		99		70-130	4		20
Chloroform	102		100		70-130	2		20
Carbon tetrachloride	105		99		70-130	6		20
1,2-Dichloropropane	103		101		70-130	2		20
Dibromochloromethane	100		100		70-130	0		20
1,1,2-Trichloroethane	104		102		70-130	2		20
Tetrachloroethene	101		96		70-130	5		20
Chlorobenzene	100		96		70-130	4		20
Trichlorofluoromethane	109		101		70-130	8		20
1,2-Dichloroethane	102		103		70-130	1		20
1,1,1-Trichloroethane	106		100		70-130	6		20
Bromodichloromethane	100		100		70-130	0		20
trans-1,3-Dichloropropene	103		102		70-130	1		20
cis-1,3-Dichloropropene	102		102		70-130	0		20
1,1-Dichloropropene	106		100		70-130	6		20
Bromoform	99		99		70-130	0		20
1,1,2,2-Tetrachloroethane	102		104		70-130	2		20
Benzene	100		98		70-130	2		20
Toluene	100		96		70-130	4		20
Ethylbenzene	101		97		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG976646-3 WG976646-4								
Chloromethane	101		97		70-130	4		20
Bromomethane	101		98		70-130	3		20
Vinyl chloride	103		95		70-130	8		20
Chloroethane	108		103		70-130	5		20
1,1-Dichloroethene	103		98		70-130	5		20
trans-1,2-Dichloroethene	101		98		70-130	3		20
Trichloroethene	101		99		70-130	2		20
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	102		99		70-130	3		20
1,4-Dichlorobenzene	102		99		70-130	3		20
Methyl tert butyl ether	102		102		70-130	0		20
p/m-Xylene	101		97		70-130	4		20
o-Xylene	100		98		70-130	2		20
cis-1,2-Dichloroethene	102		99		70-130	3		20
Dibromomethane	101		101		70-130	0		20
1,2,3-Trichloropropane	104		106		70-130	2		20
Styrene	100		99		70-130	1		20
Dichlorodifluoromethane	102		94		70-130	8		20
Acetone	94		98		70-130	4		20
Carbon disulfide	109		99		70-130	10		20
Methyl ethyl ketone	92		95		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG976646-3 WG976646-4								
Methyl isobutyl ketone	98		99		70-130	1		20
2-Hexanone	102		101		70-130	1		20
Bromochloromethane	99		97		70-130	2		20
Tetrahydrofuran	108		109		70-130	1		20
2,2-Dichloropropane	106		100		70-130	6		20
1,2-Dibromoethane	103		102		70-130	1		20
1,3-Dichloropropane	103		103		70-130	0		20
1,1,1,2-Tetrachloroethane	100		99		70-130	1		20
Bromobenzene	100		98		70-130	2		20
n-Butylbenzene	109		103		70-130	6		20
sec-Butylbenzene	106		100		70-130	6		20
tert-Butylbenzene	103		99		70-130	4		20
o-Chlorotoluene	103		101		70-130	2		20
p-Chlorotoluene	105		102		70-130	3		20
1,2-Dibromo-3-chloropropane	94		92		70-130	2		20
Hexachlorobutadiene	99		92		70-130	7		20
Isopropylbenzene	104		100		70-130	4		20
p-Isopropyltoluene	105		100		70-130	5		20
Naphthalene	106		102		70-130	4		20
n-Propylbenzene	106		101		70-130	5		20
1,2,3-Trichlorobenzene	103		99		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG976646-3 WG976646-4								
1,2,4-Trichlorobenzene	104		99		70-130	5		20
1,3,5-Trimethylbenzene	104		101		70-130	3		20
1,2,4-Trimethylbenzene	103		101		70-130	2		20
Diethyl ether	103		104		70-130	1		20
Diisopropyl Ether	105		104		70-130	1		20
tert-Butyl Alcohol[1]	101		101		70-130	0		20
Ethyl-Tert-Butyl-Ether	103		104		70-130	1		20
Tertiary-Amyl Methyl Ether	103		103		70-130	0		20
1,4-Dioxane	97		95		70-130	2		20
2-Chloroethylvinyl ether	107		106		70-130	1		20
Halothane	103		97		70-130	6		20
Ethyl Acetate	104		105		70-130	1		20
Freon-113	111		101		70-130	9		20
Vinyl acetate	106		107		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	100		99		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/10/17 19:36
Analyst: ALS
Percent Solids: 79%

Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	760		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	530		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	2000		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	210		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	360		ug/kg	120	--	1
Benzo(a)pyrene	310		ug/kg	170	--	1
Benzo(b)fluoranthene	440		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01 Date Collected: 02/06/17 10:00

Client ID: SHORELINE STOCKPILE-4A Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	150		ug/kg	120	--	1
Chrysene	320		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	170		ug/kg	120	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	540		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	170	--	1
Pyrene	670		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		30-130
Phenol-d6	47		30-130
Nitrobenzene-d5	45		30-130
2-Fluorobiphenyl	35		30-130
2,4,6-Tribromophenol	44		30-130
4-Terphenyl-d14	**26**	Q	30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/09/17 14:46
Analyst: PS
Percent Solids: 76%

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 23:22

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	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	600		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	460		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	1600		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	280		ug/kg	130	--	1
Benzo(a)pyrene	210		ug/kg	180	--	1
Benzo(b)fluoranthene	270		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02 Date Collected: 02/06/17 10:05

Client ID: SHORELINE STOCKPILE-4B Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	260		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	230		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	180	--	1
Fluorene	ND		ug/kg	220	--	1
Phenanthrene	560		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	--	1
Pyrene	460		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	480	--	1
4-Nitrophenol	ND		ug/kg	310	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	440	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**23**	Q	30-130
Phenol-d6	35		30-130
Nitrobenzene-d5	**29**	Q	30-130
2-Fluorobiphenyl	37		30-130
2,4,6-Tribromophenol	**3**	Q	30-130
4-Terphenyl-d14	40		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02 RE
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/10/17 20:02
Analyst: ALS
Percent Solids: 76%

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

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	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	170		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	ND		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	770		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	ND		ug/kg	130	--	1
Benzo(a)pyrene	ND		ug/kg	180	--	1
Benzo(b)fluoranthene	ND		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02 RE Date Collected: 02/06/17 10:05

Client ID: SHORELINE STOCKPILE-4B Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	ND		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	180	--	1
Fluorene	ND		ug/kg	220	--	1
Phenanthrene	140		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	--	1
Pyrene	150		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	470	--	1
4-Nitrophenol	ND		ug/kg	310	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	440	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**28**	Q	30-130
Phenol-d6	**29**	Q	30-130
Nitrobenzene-d5	**28**	Q	30-130
2-Fluorobiphenyl	**19**	Q	30-130
2,4,6-Tribromophenol	**23**	Q	30-130
4-Terphenyl-d14	**14**	Q	30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/09/17 13:04
Analyst: PS
Percent Solids: 81%

Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 23:22

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	360		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	2500		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	130		ug/kg	120	--	1
Benzo(a)pyrene	ND		ug/kg	160	--	1
Benzo(b)fluoranthene	ND		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03 Date Collected: 02/06/17 10:10

Client ID: SHORELINE STOCKPILE-4C Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	120	--	1
Chrysene	120		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	280		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	280		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	970	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		30-130
Phenol-d6	36		30-130
Nitrobenzene-d5	33		30-130
2-Fluorobiphenyl	40		30-130
2,4,6-Tribromophenol	56		30-130
4-Terphenyl-d14	46		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/09/17 14:21
Analyst: PS
Percent Solids: 79%

Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 23:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	400		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	2700		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	230		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	3000		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	1200		ug/kg	120	--	1
Benzo(a)pyrene	920		ug/kg	170	--	1
Benzo(b)fluoranthene	1200		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04 Date Collected: 02/06/17 10:15

Client ID: SHORELINE STOCKPILE-4D Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	400		ug/kg	120	--	1
Chrysene	1100		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	690		ug/kg	120	--	1
Benzo(ghi)perylene	530		ug/kg	170	--	1
Fluorene	370		ug/kg	210	--	1
Phenanthrene	2700		ug/kg	120	--	1
Dibenzo(a,h)anthracene	140		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	570		ug/kg	170	--	1
Pyrene	2100		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	250		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**13**	Q	30-130
Phenol-d6	**25**	Q	30-130
Nitrobenzene-d5	**18**	Q	30-130
2-Fluorobiphenyl	**27**	Q	30-130
2,4,6-Tribromophenol	**12**	Q	30-130
4-Terphenyl-d14	36		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04 RE
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/10/17 20:55
Analyst: ALS
Percent Solids: 79%

Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

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	320		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	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	420		ug/kg	200	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	1000		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	130		ug/kg	120	--	1
Benzo(a)pyrene	ND		ug/kg	160	--	1
Benzo(b)fluoranthene	150		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04 RE Date Collected: 02/06/17 10:15

Client ID: SHORELINE STOCKPILE-4D Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	120	--	1
Chrysene	130		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	330		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	270		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	200	--	1
Dibenzofuran	ND		ug/kg	200	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	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	290	--	1
2,4-Dinitrophenol	ND		ug/kg	990	--	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	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**24**	Q	30-130
Phenol-d6	**28**	Q	30-130
Nitrobenzene-d5	**28**	Q	30-130
2-Fluorobiphenyl	**21**	Q	30-130
2,4,6-Tribromophenol	**22**	Q	30-130
4-Terphenyl-d14	**17**	Q	30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/09/17 13:29
Analyst: PS
Percent Solids: 79%

Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 23:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	720		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	1100		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	220		ug/kg	130	--	1
Benzo(a)pyrene	ND		ug/kg	170	--	1
Benzo(b)fluoranthene	210		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05 Date Collected: 02/06/17 10:20

Client ID: SHORELINE STOCKPILE-4E Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	240		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	530		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	--	1
Pyrene	520		ug/kg	130	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**21**	Q	30-130
Phenol-d6	**27**	Q	30-130
Nitrobenzene-d5	**25**	Q	30-130
2-Fluorobiphenyl	**27**	Q	30-130
2,4,6-Tribromophenol	**29**	Q	30-130
4-Terphenyl-d14	**26**	Q	30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05 RE
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/10/17 21:21
Analyst: ALS
Percent Solids: 79%

Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	570		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	880		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	230		ug/kg	120	--	1
Benzo(a)pyrene	200		ug/kg	170	--	1
Benzo(b)fluoranthene	250		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05 RE Date Collected: 02/06/17 10:20

Client ID: SHORELINE STOCKPILE-4E Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	120	--	1
Chrysene	240		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	120		ug/kg	120	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	520		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	--	1
Pyrene	490		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**6**	Q	30-130
Phenol-d6	**14**	Q	30-130
Nitrobenzene-d5	**11**	Q	30-130
2-Fluorobiphenyl	**16**	Q	30-130
2,4,6-Tribromophenol	**24**	Q	30-130
4-Terphenyl-d14	**22**	Q	30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/10/17 21:47
Analyst: ALS
Percent Solids: 76%

Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	280		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	930		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	ND		ug/kg	130	--	1
Benzo(a)pyrene	ND		ug/kg	170	--	1
Benzo(b)fluoranthene	ND		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1703751

Project Number: 171521.52 **Report Date:** 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06 Date Collected: 02/06/17 10:25

Client ID: SHORELINE STOCKPILE-4F Date Received: 02/06/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	ND		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	280		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	--	1
Pyrene	250		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	460	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		30-130
Phenol-d6	45		30-130
Nitrobenzene-d5	45		30-130
2-Fluorobiphenyl	31		30-130
2,4,6-Tribromophenol	**25**	Q	30-130
4-Terphenyl-d14	**20**	Q	30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/07/17 19:05
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/06/17 23:22

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 02-05 Batch: WG975816-1					
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: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/07/17 19:05
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/06/17 23:22

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 02-05 Batch: WG975816-1					
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	--
1-Methylnaphthalene[1]	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--
Acetophenone	ND		ug/kg	160	--
n-Nitrosodimethylamine	ND		ug/kg	330	--
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	780	--
Pentachlorophenol	ND		ug/kg	330	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/07/17 19:05
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/06/17 23:22

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 02-05 Batch: WG975816-1					
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--
4-Chlorophenyl phenyl ether	ND		ug/kg	160	--
Hexachlorocyclopentadiene	ND		ug/kg	470	--
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	--
n-Nitrosodi-n-propylamine	ND		ug/kg	160	--
2-Nitroaniline	ND		ug/kg	160	--
3-Nitroaniline	ND		ug/kg	160	--
4-Nitroaniline	ND		ug/kg	160	--
P-Chloro-M-Cresol	ND		ug/kg	160	--
4,6-Dinitro-o-cresol	ND		ug/kg	420	--
Carbazole	ND		ug/kg	160	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	70		30-130
2,4,6-Tribromophenol	76		30-130
4-Terphenyl-d14	93		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/10/17 14:46
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04-06 Batch: WG976771-1					
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: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/10/17 14:46
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04-06 Batch: WG976771-1					
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	780	--
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: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/10/17 14:46
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 02/10/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04-06 Batch: WG976771-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		30-130
Phenol-d6	40		30-130
Nitrobenzene-d5	35		30-130
2-Fluorobiphenyl	36		30-130
2,4,6-Tribromophenol	38		30-130
4-Terphenyl-d14	43		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 02-05 Batch: WG975816-2 WG975816-3								
Acenaphthene	80		84		40-140	5		30
1,2,4-Trichlorobenzene	76		77		40-140	1		30
Hexachlorobenzene	82		86		40-140	5		30
Bis(2-chloroethyl)ether	80		80		40-140	0		30
2-Chloronaphthalene	81		82		40-140	1		30
1,2-Dichlorobenzene	76		73		40-140	4		30
1,3-Dichlorobenzene	74		71		40-140	4		30
1,4-Dichlorobenzene	75		72		40-140	4		30
3,3'-Dichlorobenzidine	50		62		40-140	21		30
2,4-Dinitrotoluene	86		93		40-140	8		30
2,6-Dinitrotoluene	82		91		40-140	10		30
Azobenzene	88		93		40-140	6		30
Fluoranthene	84		91		40-140	8		30
4-Bromophenyl phenyl ether	82		87		40-140	6		30
Bis(2-chloroisopropyl)ether	88		88		40-140	0		30
Bis(2-chloroethoxy)methane	86		88		40-140	2		30
Hexachlorobutadiene	72		74		40-140	3		30
Hexachloroethane	75		73		40-140	3		30
Isophorone	87		89		40-140	2		30
Naphthalene	79		79		40-140	0		30
Nitrobenzene	84		85		40-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 02-05 Batch: WG975816-2 WG975816-3								
Bis(2-ethylhexyl)phthalate	91		99		40-140	8		30
Butyl benzyl phthalate	90		99		40-140	10		30
Di-n-butylphthalate	88		96		40-140	9		30
Di-n-octylphthalate	92		100		40-140	8		30
Diethyl phthalate	83		89		40-140	7		30
Dimethyl phthalate	82		88		40-140	7		30
Benzo(a)anthracene	83		89		40-140	7		30
Benzo(a)pyrene	89		96		40-140	8		30
Benzo(b)fluoranthene	87		94		40-140	8		30
Benzo(k)fluoranthene	88		93		40-140	6		30
Chrysene	84		90		40-140	7		30
Acenaphthylene	83		87		40-140	5		30
Anthracene	86		92		40-140	7		30
Benzo(ghi)perylene	86		94		40-140	9		30
Fluorene	82		87		40-140	6		30
Phenanthrene	82		88		40-140	7		30
Dibenzo(a,h)anthracene	87		94		40-140	8		30
Indeno(1,2,3-cd)pyrene	87		95		40-140	9		30
Pyrene	85		92		40-140	8		30
Aniline	43		47		40-140	9		30
4-Chloroaniline	42		48		40-140	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 02-05 Batch: WG975816-2 WG975816-3								
1-Methylnaphthalene[1]	78		80		40-140	3		30
Dibenzofuran	81		85		40-140	5		30
2-Methylnaphthalene	79		82		40-140	4		30
Acetophenone	89		89		40-140	0		30
n-Nitrosodimethylamine	75		73		22-100	3		30
2,4,6-Trichlorophenol	85		88		30-130	3		30
2-Chlorophenol	84		83		30-130	1		30
2,4-Dichlorophenol	86		89		30-130	3		30
2,4-Dimethylphenol	86		89		30-130	3		30
2-Nitrophenol	83		82		30-130	1		30
4-Nitrophenol	90		95		30-130	5		30
2,4-Dinitrophenol	40		47		30-130	16		30
Pentachlorophenol	52		59		30-130	13		30
Phenol	79		80		30-130	1		30
2-Methylphenol	88		90		30-130	2		30
3-Methylphenol/4-Methylphenol	89		91		30-130	2		30
2,4,5-Trichlorophenol	86		92		30-130	7		30
Pyridine	67		62		30-130	8		30
4-Chlorophenyl phenyl ether	80		84		40-140	5		30
Hexachlorocyclopentadiene	64		64		40-140	0		30
NitrosoDiPhenylAmine(NDPA)/DPA	84		91		40-140	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 02-05 Batch: WG975816-2 WG975816-3								
n-Nitrosodi-n-propylamine	87		89		40-140	2		30
2-Nitroaniline	87		92		40-140	6		30
3-Nitroaniline	61		71		40-140	15		30
4-Nitroaniline	83		91		40-140	9		30
P-Chloro-M-Cresol	88		92		30-130	4		30
4,6-Dinitro-o-cresol	76		83		30-130	9		30
Carbazole	88		96		40-140	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		84		30-130
Phenol-d6	90		88		30-130
Nitrobenzene-d5	84		85		30-130
2-Fluorobiphenyl	82		84		30-130
2,4,6-Tribromophenol	86		90		30-130
4-Terphenyl-d14	87		93		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG976771-2 WG976771-3								
Acenaphthene	56		43		40-140	26		30
1,2,4-Trichlorobenzene	55		46		40-140	18		30
Hexachlorobenzene	57		43		40-140	28		30
Bis(2-chloroethyl)ether	56		47		40-140	17		30
2-Chloronaphthalene	58		47		40-140	21		30
1,2-Dichlorobenzene	54		44		40-140	20		30
1,3-Dichlorobenzene	53		44		40-140	19		30
1,4-Dichlorobenzene	53		44		40-140	19		30
3,3'-Dichlorobenzidine	42		**30**	Q	40-140	**33**	Q	30
2,4-Dinitrotoluene	61		47		40-140	26		30
2,6-Dinitrotoluene	63		49		40-140	25		30
Azobenzene	64		50		40-140	25		30
Fluoranthene	62		45		40-140	**32**	Q	30
4-Bromophenyl phenyl ether	56		43		40-140	26		30
Bis(2-chloroisopropyl)ether	57		47		40-140	19		30
Bis(2-chloroethoxy)methane	60		50		40-140	18		30
Hexachlorobutadiene	52		42		40-140	21		30
Hexachloroethane	54		44		40-140	20		30
Isophorone	64		54		40-140	17		30
Naphthalene	58		47		40-140	21		30
Nitrobenzene	65		54		40-140	18		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG976771-2 WG976771-3								
Bis(2-ethylhexyl)phthalate	57		44		40-140	26		30
Butyl benzyl phthalate	65		49		40-140	28		30
Di-n-butylphthalate	63		48		40-140	27		30
Di-n-octylphthalate	59		46		40-140	25		30
Diethyl phthalate	61		47		40-140	26		30
Dimethyl phthalate	64		50		40-140	25		30
Benzo(a)anthracene	58		43		40-140	30		30
Benzo(a)pyrene	61		46		40-140	28		30
Benzo(b)fluoranthene	61		44		40-140	**32**	Q	30
Benzo(k)fluoranthene	61		46		40-140	28		30
Chrysene	55		41		40-140	29		30
Acenaphthylene	66		52		40-140	24		30
Anthracene	58		45		40-140	25		30
Benzo(ghi)perylene	58		42		40-140	**32**	Q	30
Fluorene	58		44		40-140	27		30
Phenanthrene	56		43		40-140	26		30
Dibenzo(a,h)anthracene	58		42		40-140	**32**	Q	30
Indeno(1,2,3-cd)pyrene	58		42		40-140	**32**	Q	30
Pyrene	63		46		40-140	**31**	Q	30
Aniline	40		**29**	Q	40-140	**32**	Q	30
4-Chloroaniline	40		**30**	Q	40-140	29		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG976771-2 WG976771-3								
1-Methylnaphthalene[1]	60		48		40-140	22		30
Dibenzofuran	56		44		40-140	24		30
2-Methylnaphthalene	59		47		40-140	23		30
Acetophenone	67		56		40-140	18		30
n-Nitrosodimethylamine	58		49		22-100	17		30
2,4,6-Trichlorophenol	63		51		30-130	21		30
2-Chlorophenol	61		50		30-130	20		30
2,4-Dichlorophenol	63		52		30-130	19		30
2,4-Dimethylphenol	70		57		30-130	20		30
2-Nitrophenol	61		51		30-130	18		30
4-Nitrophenol	68		48		30-130	**34**	Q	30
2,4-Dinitrophenol	40		31		30-130	25		30
Pentachlorophenol	52		39		30-130	29		30
Phenol	65		53		30-130	20		30
2-Methylphenol	63		52		30-130	19		30
3-Methylphenol/4-Methylphenol	65		53		30-130	20		30
2,4,5-Trichlorophenol	65		51		30-130	24		30
Pyridine	51		43		30-130	17		30
4-Chlorophenyl phenyl ether	55		43		40-140	24		30
Hexachlorocyclopentadiene	58		47		40-140	21		30
NitrosoDiPhenylAmine(NDPA)/DPA	61		46		40-140	28		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04-06 Batch: WG976771-2 WG976771-3								
n-Nitrosodi-n-propylamine	64		53		40-140	19		30
2-Nitroaniline	65		53		40-140	20		30
3-Nitroaniline	55		40		40-140	**32**	Q	30
4-Nitroaniline	63		47		40-140	29		30
P-Chloro-M-Cresol	68		54		30-130	23		30
4,6-Dinitro-o-cresol	59		44		30-130	29		30
Carbazole	61		45		40-140	30		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		50		30-130
Phenol-d6	63		53		30-130
Nitrobenzene-d5	59		48		30-130
2-Fluorobiphenyl	57		46		30-130
2,4,6-Tribromophenol	61		47		30-130
4-Terphenyl-d14	60		44		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Lab Number: L1703751
Project Number: 171521.52
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/07/17 11:33
Analyst: DG
Percent Solids: 79%

Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/07/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	209000		ug/kg	61300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/07/17 13:42
Analyst: DG
Percent Solids: 76%

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/07/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	104000		ug/kg	63400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

Project Name: WYNN EVERETT
Lab Number: L1703751
Project Number: 171521.52
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/07/17 14:15
Analyst: DG
Percent Solids: 81%

Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/07/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	191000		ug/kg	58500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

Project Name: WYNN EVERETT
Lab Number: L1703751
Project Number: 171521.52
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/07/17 14:47
Analyst: DG
Percent Solids: 79%

Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/07/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	206000		ug/kg	62500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140

Project Name: WYNN EVERETT
Lab Number: L1703751
Project Number: 171521.52
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/07/17 15:19
Analyst: DG
Percent Solids: 79%

Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/07/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	123000		ug/kg	59200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

Project Name: WYNN EVERETT
Lab Number: L1703751
Project Number: 171521.52
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/07/17 15:52
Analyst: DG
Percent Solids: 76%

Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/07/17 04:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	98900		ug/kg	63000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	67		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 02/07/17 12:20
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 02/06/17 11:15

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-06 Batch: WG975650-1					
TPH	ND		ug/kg	31500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-06 Batch: WG975650-2								
TPH	90		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 02/08/17 17:32
Analyst: HT
Percent Solids: 79%

Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:57
Cleanup Method: EPA 3665A
Cleanup Date: 02/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	--	1	A
Aroclor 1221	ND		ug/kg	40.4	--	1	A
Aroclor 1232	ND		ug/kg	40.4	--	1	A
Aroclor 1242	ND		ug/kg	40.4	--	1	A
Aroclor 1248	ND		ug/kg	40.4	--	1	A
Aroclor 1254	544		ug/kg	40.4	--	1	B
Aroclor 1260	241		ug/kg	40.4	--	1	B
Aroclor 1262	ND		ug/kg	40.4	--	1	A
Aroclor 1268	123		ug/kg	40.4	--	1	B
PCBs, Total	908		ug/kg	40.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 02/08/17 19:23
Analyst: HT
Percent Solids: 76%

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:57
Cleanup Method: EPA 3665A
Cleanup Date: 02/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.0	--	1	A
Aroclor 1221	ND		ug/kg	44.0	--	1	A
Aroclor 1232	ND		ug/kg	44.0	--	1	A
Aroclor 1242	ND		ug/kg	44.0	--	1	A
Aroclor 1248	ND		ug/kg	44.0	--	1	A
Aroclor 1254	162		ug/kg	44.0	--	1	B
Aroclor 1260	236		ug/kg	44.0	--	1	B
Aroclor 1262	ND		ug/kg	44.0	--	1	A
Aroclor 1268	282		ug/kg	44.0	--	1	B
PCBs, Total	680		ug/kg	44.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 02/08/17 19:37
Analyst: HT
Percent Solids: 81%

Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:57
Cleanup Method: EPA 3665A
Cleanup Date: 02/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/07/17

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	111		ug/kg	39.9	--	1	B
Aroclor 1260	60.7		ug/kg	39.9	--	1	B
Aroclor 1262	ND		ug/kg	39.9	--	1	A
Aroclor 1268	ND		ug/kg	39.9	--	1	B
PCBs, Total	172		ug/kg	39.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID:	L1703751-04	Date Collected:	02/06/17 10:15
Client ID:	SHORELINE STOCKPILE-4D	Date Received:	02/06/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	02/06/17 22:57
Analytical Date:	02/08/17 19:51	Cleanup Method:	EPA 3665A
Analyst:	HT	Cleanup Date:	02/07/17
Percent Solids:	79%	Cleanup Method:	EPA 3660B
		Cleanup Date:	02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.3	--	1	A
Aroclor 1221	ND		ug/kg	42.3	--	1	A
Aroclor 1232	ND		ug/kg	42.3	--	1	A
Aroclor 1242	ND		ug/kg	42.3	--	1	A
Aroclor 1248	ND		ug/kg	42.3	--	1	A
Aroclor 1254	220		ug/kg	42.3	--	1	B
Aroclor 1260	134		ug/kg	42.3	--	1	B
Aroclor 1262	ND		ug/kg	42.3	--	1	A
Aroclor 1268	93.9		ug/kg	42.3	--	1	B
PCBs, Total	448		ug/kg	42.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID:	L1703751-05	Date Collected:	02/06/17 10:20
Client ID:	SHORELINE STOCKPILE-4E	Date Received:	02/06/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	02/06/17 22:57
Analytical Date:	02/08/17 20:05	Cleanup Method:	EPA 3665A
Analyst:	HT	Cleanup Date:	02/07/17
Percent Solids:	79%	Cleanup Method:	EPA 3660B
		Cleanup Date:	02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	--	1	A
Aroclor 1221	ND		ug/kg	40.4	--	1	A
Aroclor 1232	ND		ug/kg	40.4	--	1	A
Aroclor 1242	ND		ug/kg	40.4	--	1	A
Aroclor 1248	ND		ug/kg	40.4	--	1	A
Aroclor 1254	116		ug/kg	40.4	--	1	B
Aroclor 1260	96.6		ug/kg	40.4	--	1	B
Aroclor 1262	ND		ug/kg	40.4	--	1	A
Aroclor 1268	87.0		ug/kg	40.4	--	1	B
PCBs, Total	300		ug/kg	40.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID:	L1703751-06	Date Collected:	02/06/17 10:25
Client ID:	SHORELINE STOCKPILE-4F	Date Received:	02/06/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	02/06/17 22:57
Analytical Date:	02/08/17 20:18	Cleanup Method:	EPA 3665A
Analyst:	HT	Cleanup Date:	02/07/17
Percent Solids:	76%	Cleanup Method:	EPA 3660B
		Cleanup Date:	02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.0	--	1	A
Aroclor 1221	ND		ug/kg	43.0	--	1	A
Aroclor 1232	ND		ug/kg	43.0	--	1	A
Aroclor 1242	ND		ug/kg	43.0	--	1	A
Aroclor 1248	ND		ug/kg	43.0	--	1	A
Aroclor 1254	173		ug/kg	43.0	--	1	B
Aroclor 1260	84.6		ug/kg	43.0	--	1	B
Aroclor 1262	ND		ug/kg	43.0	--	1	A
Aroclor 1268	50.6		ug/kg	43.0	--	1	B
PCBs, Total	308		ug/kg	43.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 02/07/17 04:44
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 02/06/17 16:37
Cleanup Method: EPA 3665A
Cleanup Date: 02/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-06 Batch: WG975752-1						
Aroclor 1016	ND		ug/kg	31.6	--	A
Aroclor 1221	ND		ug/kg	31.6	--	A
Aroclor 1232	ND		ug/kg	31.6	--	A
Aroclor 1242	ND		ug/kg	31.6	--	A
Aroclor 1248	ND		ug/kg	31.6	--	A
Aroclor 1254	ND		ug/kg	31.6	--	A
Aroclor 1260	ND		ug/kg	31.6	--	A
Aroclor 1262	ND		ug/kg	31.6	--	A
Aroclor 1268	ND		ug/kg	31.6	--	A
PCBs, Total	ND		ug/kg	31.6	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	48		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-06 Batch: WG975752-2 WG975752-3									
Aroclor 1016	83		74		40-140	11		30	A
Aroclor 1260	70		77		40-140	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		79		30-150	A
Decachlorobiphenyl	47		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		75		30-150	B
Decachlorobiphenyl	54		65		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01 D
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/10/17 15:04
Analyst: KEG
Percent Solids: 79%

Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:10
Cleanup Method: EPA 3620B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	47.6	--	5	A
Lindane	ND		ug/kg	15.9	--	5	A
Alpha-BHC	ND		ug/kg	19.8	--	5	A
Beta-BHC	ND		ug/kg	47.6	--	5	A
Heptachlor	ND		ug/kg	23.8	--	5	A
Aldrin	ND		ug/kg	47.6	--	5	A
Heptachlor epoxide	ND		ug/kg	89.3	--	5	A
Endrin	ND		ug/kg	19.8	--	5	A
Endrin ketone	ND		ug/kg	47.6	--	5	A
Dieldrin	ND		ug/kg	29.8	--	5	A
4,4'-DDE	ND		ug/kg	47.6	--	5	A
4,4'-DDD	ND		ug/kg	47.6	--	5	A
4,4'-DDT	ND		ug/kg	89.3	--	5	A
Endosulfan I	ND		ug/kg	47.6	--	5	A
Endosulfan II	ND		ug/kg	47.6	--	5	A
Endosulfan sulfate	ND		ug/kg	19.8	--	5	A
Methoxychlor	ND		ug/kg	89.3	--	5	A
Chlordane	ND		ug/kg	387	--	5	A
Hexachlorobenzene	ND		ug/kg	47.6	--	5	A
Toxaphene	ND		ug/kg	893	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	112		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01 D
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/10/17 15:29
Analyst: DM
Percent Solids: 79%
Methylation Date: 02/07/17 16:33

Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/07/17 06:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	83000	--	20	A
MCPA	ND		ug/kg	83000	--	20	A
Dalapon	ND		ug/kg	830	--	20	A
Dicamba	ND		ug/kg	830	--	20	A
Dichloroprop	ND		ug/kg	830	--	20	A
2,4-D	ND		ug/kg	830	--	20	A
2,4-DB	ND		ug/kg	830	--	20	A
2,4,5-T	ND		ug/kg	830	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	830	--	20	A
Dinoseb	ND		ug/kg	830	--	20	A

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: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/10/17 12:13
Analyst: KEG
Percent Solids: 76%

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:10
Cleanup Method: EPA 3620B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.6	--	1	A
Lindane	ND		ug/kg	3.52	--	1	A
Alpha-BHC	ND		ug/kg	4.41	--	1	A
Beta-BHC	ND		ug/kg	10.6	--	1	A
Heptachlor	ND		ug/kg	5.29	--	1	A
Aldrin	ND		ug/kg	10.6	--	1	A
Heptachlor epoxide	ND		ug/kg	19.8	--	1	A
Endrin	ND		ug/kg	4.41	--	1	A
Endrin ketone	ND		ug/kg	10.6	--	1	A
Dieldrin	ND		ug/kg	6.61	--	1	A
4,4'-DDE	ND		ug/kg	10.6	--	1	A
4,4'-DDD	ND		ug/kg	10.6	--	1	A
4,4'-DDT	ND		ug/kg	19.8	--	1	A
Endosulfan I	ND		ug/kg	10.6	--	1	A
Endosulfan II	ND		ug/kg	10.6	--	1	A
Endosulfan sulfate	ND		ug/kg	4.41	--	1	A
Methoxychlor	ND		ug/kg	19.8	--	1	A
Chlordane	ND		ug/kg	85.9	--	1	A
Hexachlorobenzene	ND		ug/kg	10.6	--	1	B
Toxaphene	ND		ug/kg	198	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	109		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02 D
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/10/17 15:49
Analyst: DM
Percent Solids: 76%
Methylation Date: 02/07/17 16:33

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/07/17 06:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	87000	--	20	A
MCPA	ND		ug/kg	87000	--	20	A
Dalapon	ND		ug/kg	870	--	20	A
Dicamba	ND		ug/kg	870	--	20	A
Dichloroprop	ND		ug/kg	870	--	20	A
2,4-D	ND		ug/kg	870	--	20	A
2,4-DB	ND		ug/kg	870	--	20	A
2,4,5-T	ND		ug/kg	870	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	870	--	20	A
Dinoseb	ND		ug/kg	870	--	20	A

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: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/10/17 12:29
Analyst: KEG
Percent Solids: 81%

Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:10
Cleanup Method: EPA 3620B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.40	--	1	A
Lindane	ND		ug/kg	3.13	--	1	A
Alpha-BHC	ND		ug/kg	3.91	--	1	A
Beta-BHC	ND		ug/kg	9.40	--	1	A
Heptachlor	ND		ug/kg	4.70	--	1	A
Aldrin	ND		ug/kg	9.40	--	1	A
Heptachlor epoxide	ND		ug/kg	17.6	--	1	A
Endrin	ND		ug/kg	3.91	--	1	A
Endrin ketone	ND		ug/kg	9.40	--	1	A
Dieldrin	ND		ug/kg	5.87	--	1	A
4,4'-DDE	ND		ug/kg	9.40	--	1	A
4,4'-DDD	ND		ug/kg	9.40	--	1	A
4,4'-DDT	ND		ug/kg	17.6	--	1	A
Endosulfan I	ND		ug/kg	9.40	--	1	A
Endosulfan II	ND		ug/kg	9.40	--	1	A
Endosulfan sulfate	ND		ug/kg	3.91	--	1	A
Methoxychlor	ND		ug/kg	17.6	--	1	A
Chlordane	ND		ug/kg	76.3	--	1	A
Hexachlorobenzene	ND		ug/kg	9.40	--	1	A
Toxaphene	ND		ug/kg	176	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	105		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03 D
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/10/17 16:08
Analyst: DM
Percent Solids: 81%
Methylation Date: 02/07/17 16:33

Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/07/17 06:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	81000	--	20	A
MCPA	ND		ug/kg	81000	--	20	A
Dalapon	ND		ug/kg	810	--	20	A
Dicamba	ND		ug/kg	810	--	20	A
Dichloroprop	ND		ug/kg	810	--	20	A
2,4-D	ND		ug/kg	810	--	20	A
2,4-DB	ND		ug/kg	810	--	20	A
2,4,5-T	ND		ug/kg	810	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	810	--	20	A
Dinoseb	ND		ug/kg	810	--	20	A

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: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04 D
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/10/17 15:20
Analyst: KEG
Percent Solids: 79%

Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:10
Cleanup Method: EPA 3620B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	49.1	--	5	A
Lindane	ND		ug/kg	16.4	--	5	A
Alpha-BHC	ND		ug/kg	20.5	--	5	A
Beta-BHC	ND		ug/kg	49.1	--	5	A
Heptachlor	ND		ug/kg	24.6	--	5	A
Aldrin	ND		ug/kg	49.1	--	5	A
Heptachlor epoxide	ND		ug/kg	92.1	--	5	A
Endrin	ND		ug/kg	20.5	--	5	A
Endrin ketone	ND		ug/kg	49.1	--	5	A
Dieldrin	ND		ug/kg	30.7	--	5	A
4,4'-DDE	ND		ug/kg	49.1	--	5	A
4,4'-DDD	ND		ug/kg	49.1	--	5	A
4,4'-DDT	ND		ug/kg	92.1	--	5	A
Endosulfan I	ND		ug/kg	49.1	--	5	A
Endosulfan II	ND		ug/kg	49.1	--	5	A
Endosulfan sulfate	ND		ug/kg	20.5	--	5	A
Methoxychlor	ND		ug/kg	92.1	--	5	A
Chlordane	ND		ug/kg	399	--	5	A
Hexachlorobenzene	ND		ug/kg	49.1	--	5	A
Toxaphene	ND		ug/kg	921	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	109		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04 D
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/10/17 16:28
Analyst: DM
Percent Solids: 79%
Methylation Date: 02/07/17 16:33

Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/07/17 06:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	84000	--	20	A
MCPA	ND		ug/kg	84000	--	20	A
Dalapon	ND		ug/kg	840	--	20	A
Dicamba	ND		ug/kg	840	--	20	A
Dichloroprop	ND		ug/kg	840	--	20	A
2,4-D	ND		ug/kg	840	--	20	A
2,4-DB	ND		ug/kg	840	--	20	A
2,4,5-T	ND		ug/kg	840	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	840	--	20	A
Dinoseb	ND		ug/kg	840	--	20	A

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: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/10/17 13:01
Analyst: KEG
Percent Solids: 79%

Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:10
Cleanup Method: EPA 3620B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.93	--	1	A
Lindane	ND		ug/kg	3.31	--	1	A
Alpha-BHC	ND		ug/kg	4.14	--	1	A
Beta-BHC	ND		ug/kg	9.93	--	1	A
Heptachlor	ND		ug/kg	4.96	--	1	A
Aldrin	ND		ug/kg	9.93	--	1	A
Heptachlor epoxide	ND		ug/kg	18.6	--	1	A
Endrin	ND		ug/kg	4.14	--	1	A
Endrin ketone	ND		ug/kg	9.93	--	1	A
Dieldrin	ND		ug/kg	6.20	--	1	A
4,4'-DDE	ND		ug/kg	9.93	--	1	A
4,4'-DDD	ND		ug/kg	9.93	--	1	A
4,4'-DDT	ND		ug/kg	18.6	--	1	A
Endosulfan I	ND		ug/kg	9.93	--	1	A
Endosulfan II	ND		ug/kg	9.93	--	1	A
Endosulfan sulfate	ND		ug/kg	4.14	--	1	A
Methoxychlor	ND		ug/kg	18.6	--	1	A
Chlordane	ND		ug/kg	80.6	--	1	A
Hexachlorobenzene	ND		ug/kg	9.93	--	1	A
Toxaphene	ND		ug/kg	186	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	118		30-150	B
Decachlorobiphenyl	114		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05 D
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/10/17 16:48
Analyst: DM
Percent Solids: 79%
Methylation Date: 02/07/17 16:33

Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/07/17 06:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	84000	--	20	A
MCPA	ND		ug/kg	84000	--	20	A
Dalapon	ND		ug/kg	840	--	20	A
Dicamba	ND		ug/kg	840	--	20	A
Dichloroprop	ND		ug/kg	840	--	20	A
2,4-D	ND		ug/kg	840	--	20	A
2,4-DB	ND		ug/kg	840	--	20	A
2,4,5-T	ND		ug/kg	840	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	840	--	20	A
Dinoseb	ND		ug/kg	840	--	20	A

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: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06 D
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/10/17 15:36
Analyst: KEG
Percent Solids: 76%

Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/06/17 22:10
Cleanup Method: EPA 3620B
Cleanup Date: 02/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	51.0	--	5	A
Lindane	ND		ug/kg	17.0	--	5	A
Alpha-BHC	ND		ug/kg	21.2	--	5	A
Beta-BHC	ND		ug/kg	51.0	--	5	A
Heptachlor	ND		ug/kg	25.5	--	5	A
Aldrin	ND		ug/kg	51.0	--	5	A
Heptachlor epoxide	ND		ug/kg	95.6	--	5	A
Endrin	ND		ug/kg	21.2	--	5	A
Endrin ketone	ND		ug/kg	51.0	--	5	A
Dieldrin	ND		ug/kg	31.8	--	5	A
4,4'-DDE	ND		ug/kg	51.0	--	5	A
4,4'-DDD	ND		ug/kg	51.0	--	5	A
4,4'-DDT	ND		ug/kg	95.6	--	5	A
Endosulfan I	ND		ug/kg	51.0	--	5	A
Endosulfan II	ND		ug/kg	51.0	--	5	A
Endosulfan sulfate	ND		ug/kg	21.2	--	5	A
Methoxychlor	ND		ug/kg	95.6	--	5	A
Chlordane	ND		ug/kg	414	--	5	A
Hexachlorobenzene	ND		ug/kg	51.0	--	5	A
Toxaphene	ND		ug/kg	956	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	118		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	106		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06 D
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/10/17 17:07
Analyst: DM
Percent Solids: 76%
Methylation Date: 02/07/17 16:33

Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/07/17 06:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	86000	--	20	A
MCPA	ND		ug/kg	86000	--	20	A
Dalapon	ND		ug/kg	860	--	20	A
Dicamba	ND		ug/kg	860	--	20	A
Dichloroprop	ND		ug/kg	860	--	20	A
2,4-D	ND		ug/kg	860	--	20	A
2,4-DB	ND		ug/kg	860	--	20	A
2,4,5-T	ND		ug/kg	860	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	860	--	20	A
Dinoseb	ND		ug/kg	860	--	20	A

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: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 02/06/17 14:14
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 02/05/17 22:59
Cleanup Method: EPA 3620B
Cleanup Date: 02/06/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-06 Batch: WG975528-1						
Delta-BHC	ND		ug/kg	7.78	--	A
Lindane	ND		ug/kg	2.59	--	A
Alpha-BHC	ND		ug/kg	3.24	--	A
Beta-BHC	ND		ug/kg	7.78	--	A
Heptachlor	ND		ug/kg	3.89	--	A
Aldrin	ND		ug/kg	7.78	--	A
Heptachlor epoxide	ND		ug/kg	14.6	--	A
Endrin	ND		ug/kg	3.24	--	A
Endrin ketone	ND		ug/kg	7.78	--	A
Dieldrin	ND		ug/kg	4.86	--	A
4,4'-DDE	ND		ug/kg	7.78	--	A
4,4'-DDD	ND		ug/kg	7.78	--	A
4,4'-DDT	ND		ug/kg	14.6	--	A
Endosulfan I	ND		ug/kg	7.78	--	A
Endosulfan II	ND		ug/kg	7.78	--	A
Endosulfan sulfate	ND		ug/kg	3.24	--	A
Methoxychlor	ND		ug/kg	14.6	--	A
Chlordane	ND		ug/kg	63.2	--	A
Hexachlorobenzene	ND		ug/kg	7.78	--	A
Toxaphene	ND		ug/kg	146	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	90		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 02/07/17 18:23
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 02/06/17 21:13

Methylation Date: 02/07/17 11:24

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-06 Batch: WG975800-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-06 Batch: WG975528-2 WG975528-3									
Delta-BHC	87		87		40-140	0		30	A
Lindane	77		81		40-140	5		30	A
Alpha-BHC	86		90		40-140	5		30	A
Beta-BHC	99		97		40-140	2		30	A
Heptachlor	87		90		40-140	3		30	A
Aldrin	86		94		40-140	9		30	A
Heptachlor epoxide	87		95		40-140	9		30	A
Endrin	102		105		40-140	3		30	A
Endrin ketone	94		96		40-140	2		30	A
Dieldrin	95		98		40-140	3		30	A
4,4'-DDE	90		92		40-140	2		30	A
4,4'-DDD	95		97		40-140	2		30	A
4,4'-DDT	97		101		40-140	4		30	A
Endosulfan I	97		100		40-140	3		30	A
Endosulfan II	95		98		40-140	3		30	A
Endosulfan sulfate	79		78		40-140	1		30	A
Methoxychlor	100		105		40-140	5		30	A
Hexachlorobenzene	77		78		40-140	1		30	A
Endrin aldehyde	70		71		40-140	1		30	A
cis-Chlordane	86		91		40-140	6		30	A
trans-Chlordane	92		97		40-140	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-06 Batch: WG975528-2 WG975528-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		94		30-150	B
Decachlorobiphenyl	121		121		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		82		30-150	A
Decachlorobiphenyl	92		91		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-06 Batch: WG975528-4 WG975528-5									
Toxaphene	99		102		40-140	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		95		30-150	B
Decachlorobiphenyl	128		121		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	A
Decachlorobiphenyl	93		95		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-06 Batch: WG975800-2 WG975800-3									
MCPP	123		119		40-140	3		30	A
MCPA	85		84		40-140	1		30	A
Dalapon	76		74		40-140	3		30	A
Dicamba	120		119		40-140	1		30	A
Dichloroprop	139		126		40-140	10		30	A
2,4-D	105		100		40-140	5		30	A
2,4-DB	95		91		40-140	4		30	A
2,4,5-T	89		83		40-140	7		30	A
2,4,5-TP (Silvex)	86		82		40-140	5		30	A
Dinoseb	**7**	Q	**6**	Q	40-140	15		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	121		121		30-150	A
DCAA	90		85		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	4.6		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Arsenic, Total	180		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Barium, Total	39		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.25	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Cadmium, Total	0.63		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Chromium, Total	22		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Lead, Total	170		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Mercury, Total	0.819		mg/kg	0.081	--	1	02/07/17 08:10	02/10/17 09:44	EPA 7471B	97,7471B	BV
Nickel, Total	14		mg/kg	1.2	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Selenium, Total	4.5		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Silver, Total	0.60		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Vanadium, Total	44		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB
Zinc, Total	140		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 21:45	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 76%

Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.7		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Arsenic, Total	150		mg/kg	0.51	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Barium, Total	42		mg/kg	0.51	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.26	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Cadmium, Total	0.70		mg/kg	0.51	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Chromium, Total	23		mg/kg	0.51	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Lead, Total	260		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Mercury, Total	1.28		mg/kg	0.083	--	1	02/07/17 08:10	02/10/17 09:45	EPA 7471B	97,7471B	BV
Nickel, Total	13		mg/kg	1.3	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Selenium, Total	4.0		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Silver, Total	1.4		mg/kg	0.51	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Vanadium, Total	28		mg/kg	0.51	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB
Zinc, Total	130		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 21:49	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 81%

Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	7.3		mg/kg	2.4	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Arsenic, Total	230		mg/kg	0.48	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Barium, Total	38		mg/kg	0.48	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.24	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Cadmium, Total	1.1		mg/kg	0.48	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Chromium, Total	24		mg/kg	0.48	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Lead, Total	200		mg/kg	2.4	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Mercury, Total	1.33		mg/kg	0.080	--	1	02/07/17 08:10	02/10/17 09:47	EPA 7471B	97,7471B	BV
Nickel, Total	10		mg/kg	1.2	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Selenium, Total	5.9		mg/kg	2.4	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Silver, Total	2.2		mg/kg	0.48	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.4	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Vanadium, Total	33		mg/kg	0.48	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB
Zinc, Total	180		mg/kg	2.4	--	1	02/07/17 20:15	02/08/17 22:15	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.3		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Arsenic, Total	180		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Barium, Total	42		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.25	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Cadmium, Total	0.72		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Chromium, Total	23		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Lead, Total	180		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Mercury, Total	1.26		mg/kg	0.082	--	1	02/07/17 08:10	02/10/17 09:49	EPA 7471B	97,7471B	BV
Nickel, Total	14		mg/kg	1.2	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Selenium, Total	3.9		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Silver, Total	1.2		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Vanadium, Total	30		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB
Zinc, Total	130		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:20	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.1		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Arsenic, Total	200		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Barium, Total	36		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.25	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Cadmium, Total	0.66		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Chromium, Total	25		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Lead, Total	160		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Mercury, Total	1.30		mg/kg	0.081	--	1	02/07/17 08:10	02/10/17 09:51	EPA 7471B	97,7471B	BV
Nickel, Total	13		mg/kg	1.2	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Selenium, Total	4.0		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Silver, Total	0.78		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Vanadium, Total	31		mg/kg	0.50	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB
Zinc, Total	120		mg/kg	2.5	--	1	02/07/17 20:15	02/08/17 22:24	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 76%

Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	7.5		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Arsenic, Total	180		mg/kg	0.52	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Barium, Total	39		mg/kg	0.52	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.26	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Cadmium, Total	0.63		mg/kg	0.52	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Chromium, Total	31		mg/kg	0.52	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Lead, Total	190		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Mercury, Total	1.95		mg/kg	0.082	--	1	02/07/17 08:10	02/10/17 09:53	EPA 7471B	97,7471B	BV
Nickel, Total	15		mg/kg	1.3	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Selenium, Total	5.0		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Silver, Total	1.0		mg/kg	0.52	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Vanadium, Total	33		mg/kg	0.52	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB
Zinc, Total	130		mg/kg	2.6	--	1	02/07/17 20:15	02/08/17 22:29	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

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): 01-06 Batch: WG975848-1										
Mercury, Total	ND		mg/kg	0.083	--	1	02/07/17 08:10	02/10/17 09:38	97,7471B	BV

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): 01-06 Batch: WG976112-1										
Antimony, Total	ND		mg/kg	2.0	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Arsenic, Total	ND		mg/kg	0.40	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Barium, Total	ND		mg/kg	0.40	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Chromium, Total	ND		mg/kg	0.40	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Lead, Total	ND		mg/kg	2.0	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Nickel, Total	ND		mg/kg	1.0	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Selenium, Total	ND		mg/kg	2.0	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Silver, Total	ND		mg/kg	0.40	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Thallium, Total	ND		mg/kg	2.0	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Vanadium, Total	ND		mg/kg	0.40	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB
Zinc, Total	ND		mg/kg	2.0	--	1	02/07/17 20:15	02/08/17 19:09	97,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG975848-2 WG975848-3 SRM Lot Number: D091-540								
Mercury, Total	125		104		72-128	18		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG976112-2 WG976112-3 SRM Lot Number: D091-540								
Antimony, Total	146		146		1-200	0		30
Arsenic, Total	110		103		80-121	7		30
Barium, Total	100		96		84-117	4		30
Beryllium, Total	103		99		83-117	4		30
Cadmium, Total	99		97		83-117	2		30
Chromium, Total	105		98		80-119	7		30
Lead, Total	103		103		82-118	0		30
Nickel, Total	93		93		83-117	0		30
Selenium, Total	96		96		79-121	0		30
Silver, Total	96		89		76-124	8		30
Thallium, Total	99		99		80-121	0		30
Vanadium, Total	104		96		78-122	8		30
Zinc, Total	103		98		82-118	5		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/07/17 11:12	1,1030	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/07/17 11:12	1,1030	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:10
Date Received: 02/06/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/07/17 11:12	1,1030	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/07/17 11:12	1,1030	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/07/17 11:12	1,1030	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/07/17 11:12	1,1030	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:00
Date Received: 02/06/17
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	2000		umhos/cm	10	--	1	-	02/07/17 01:05	1,9050A	VB
Solids, Total	78.9		%	0.100	NA	1	-	02/07/17 12:43	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	02/07/17 00:08	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/06/17 23:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:39	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:29	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:05
Date Received: 02/06/17
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	1300		umhos/cm	10	--	1	-	02/07/17 01:05	1,9050A	VB
Solids, Total	75.5		%	0.100	NA	1	-	02/07/17 12:43	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	02/07/17 00:08	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/06/17 23:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:39	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:29	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-03
Client ID: SHORELINE STOCKPILE-4C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:10
Date Received: 02/06/17
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	1600		umhos/cm	10	--	1	-	02/07/17 01:05	1,9050A	VB
Solids, Total	81.3		%	0.100	NA	1	-	02/07/17 12:43	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	02/07/17 00:08	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/06/17 23:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:39	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:30	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-04
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:15
Date Received: 02/06/17
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	1400		umhos/cm	10	--	1	-	02/07/17 01:05	1,9050A	VB
Solids, Total	78.6		%	0.100	NA	1	-	02/07/17 12:43	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	02/07/17 00:08	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/06/17 23:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:39	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:30	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:20
Date Received: 02/06/17
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	1300		umhos/cm	10	--	1	-	02/07/17 01:05	1,9050A	VB
Solids, Total	78.6		%	0.100	NA	1	-	02/07/17 12:43	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	02/07/17 00:08	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/06/17 23:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:40	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:30	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1703751
Report Date: 02/12/17

SAMPLE RESULTS

Lab ID: L1703751-06
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:25
Date Received: 02/06/17
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	1400		umhos/cm	10	--	1	-	02/07/17 01:05	1,9050A	VB
Solids, Total	76.4		%	0.100	NA	1	-	02/07/17 12:43	121,2540G	RI
pH (H)	7.3		SU	-	NA	1	-	02/07/17 00:08	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/06/17 23:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:40	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:30	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
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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): 01-06 Batch: WG976100-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:36	1,7.3	RP
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG976101-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	02/07/17 19:15	02/07/17 20:27	1,7.3	RP

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1703751

Report Date: 02/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG975815-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG975817-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 04-06 Batch: WG975832-1								
Specific Conductance	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG975833-1								
Specific Conductance	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG976100-2								
Cyanide, Reactive	42		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG976101-2								
Sulfide, Reactive	84		-		60-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG975833-2 QC Sample: L1703751-01 Client ID: SHORELINE STOCKPILE-4A						
Specific Conductance @ 25 C	2000	1900	umhos/cm	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG975973-1 QC Sample: L1703751-01 Client ID: SHORELINE STOCKPILE-4A						
Solids, Total	78.9	80.0	%	1		20

Project Name: WYNN EVERETT
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/06/2017 22:05

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703751-01A	Vial MeOH preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-01B	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-01C	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-01D	Vial Large Septa unpreserved (4o	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(2)
L1703751-01E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.7	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(),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)
L1703751-01F	Glass 250ml/8oz unpreserved	A	N/A	5.7	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)
L1703751-01G	Glass 500ml/16oz unpreserved	A	N/A	5.7	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1703751-02A	Vial MeOH preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-02B	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-02C	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-02D	Vial Large Septa unpreserved (4o	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703751-02E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.7	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)
L1703751-02F	Glass 250ml/8oz unpreserved	A	N/A	5.7	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1703751-02G	Glass 500ml/16oz unpreserved	A	N/A	5.7	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1703751-03A	Vial MeOH preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-03B	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-03C	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-03D	Vial Large Septa unpreserved (4o	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(2)
L1703751-03E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.7	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(),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)
L1703751-03F	Glass 250ml/8oz unpreserved	A	N/A	5.7	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 EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703751-03G	Glass 500ml/16oz unpreserved	A	N/A	5.7	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1703751-04A	Vial MeOH preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-04B	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-04C	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-04D	Vial Large Septa unpreserved (4o	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(2)
L1703751-04E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.7	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(),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)
L1703751-04F	Glass 250ml/8oz unpreserved	A	N/A	5.7	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)
L1703751-04G	Glass 500ml/16oz unpreserved	A	N/A	5.7	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1703751-05A	Vial MeOH preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-05B	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-05C	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-05D	Vial Large Septa unpreserved (4o	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1703751
Report Date: 02/12/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703751-05E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.7	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(),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)
L1703751-05F	Glass 250ml/8oz unpreserved	A	N/A	5.7	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)
L1703751-05G	Glass 500ml/16oz unpreserved	A	N/A	5.7	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1703751-06A	Vial MeOH preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-06B	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-06C	Vial water preserved	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(14)
L1703751-06D	Vial Large Septa unpreserved (4o	A	N/A	5.7	Y	Absent	MCP-8260HLW-10(2)
L1703751-06E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.7	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(),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)
L1703751-06F	Glass 250ml/8oz unpreserved	A	N/A	5.7	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 EVERETT
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Report Date: 02/12/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1703751-06G	Glass 500ml/16oz unpreserved	A	N/A	5.7	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1703751
Project Number:	171521.52	**Report Date:**	02/12/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1703751
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Data Qualifiers

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:**	L1703751
Project Number:	171521.52	**Report Date:**	02/12/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 2/9/17

CHAIN OF CUSTODY

PAGE DD 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: 2/6/17

ALPHA Job #: L1763751

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~~ Wynn Everett
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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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, ignit	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						Sample Specific Comments
03751-01	Shoreline Stockpile - 4A	2/6/17	10:00	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-02	Shoreline Stockpile - 4B		10:05			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-03	Shoreline Stockpile - 4C		10:10			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-04	Shoreline Stockpile - 4D		10:15			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-05	Shoreline Stockpile - 4E		10:20			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-06	Shoreline Stockpile - 4F		10:25			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	2/6/17@14:06		2/6/17 1405
AAL	2/6/17 1707		2/6/17 1707

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.

CHAIN OF CUSTODY

PAGE DD 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: 2/6/17

ALPHA Job #: L1763751

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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, ignit	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						Sample Specific Comments	TOTAL # BOTTLES
03751-01	Shoreline Stockpile - 4A	2/6/17	10:00	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-02	Shoreline Stockpile - 4B		10:05			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-03	Shoreline Stockpile - 4C		10:10			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-04	Shoreline Stockpile - 4D		10:15			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-05	Shoreline Stockpile - 4E		10:20			☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-06	Shoreline Stockpile - 4F	↓	10:25	↓	↓	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	2/6/17@14:06		2/6/17 1405
AAL	2/6/17 1707		2/6/17 1707

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1703751
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG976240-5	**Lab File ID**	: V04170207B05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 02/07/17 13:09

Client Sample No.	Lab Sample ID	Analysis Date
WG976240-3LCS	WG976240-3	02/07/17 11:24
WG976240-4LCSD	WG976240-4	02/07/17 11:50
SHORELINE STOCKPILE-4A	L1703751-01	02/07/17 20:34
SHORELINE STOCKPILE-4B	L1703751-02	02/07/17 21:01
SHORELINE STOCKPILE-4E	L1703751-05	02/07/17 21:27
SHORELINE STOCKPILE-4F	L1703751-06	02/07/17 21:54

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1703751
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG976646-5	**Lab File ID**	: V11170208A06
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 02/08/17 09:06

Client Sample No.	Lab Sample ID	Analysis Date
WG976646-3LCS	WG976646-3	02/08/17 07:50
WG976646-4LCSD	WG976646-4	02/08/17 08:15
SHORELINE STOCKPILE-4C	L1703751-03	02/08/17 17:11
SHORELINE STOCKPILE-4D	L1703751-04	02/08/17 17:36

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1703751	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 02/07/17 11:24	
Lab File ID	: V04170207B01	Init. Calib. Date(s)	: 01/03/17	01/03/17
Sample No	: WG976240-2	Init. Calib. Times	: 19:18	22:21
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	98	0
Dichlorodifluoromethane	0.406	0.35	-	13.8	20	77	0
Chloromethane	0.534	0.444	-	16.9	20	77	0
Vinyl chloride	0.409	0.412	-	-0.7	20	93	0
Bromomethane	0.19	0.212	-	-11.6	20	106	0
Chloroethane	0.207	0.19	-	8.2	20	85	0
Trichlorofluoromethane	0.397	0.387	-	2.5	20	87	0
Ethyl ether	0.15	0.13	-	13.3	20	82	0
1,1-Dichloroethene	0.284	0.281	-	1.1	20	92	0
Carbon disulfide	1.062	0.992	-	6.6	20	92	0
Methylene chloride	0.34	0.327	-	3.8	20	93	0
Acetone	20	16.606	-	17	20	96	0
trans-1,2-Dichloroethene	0.313	0.306	-	2.2	20	91	0
Methyl tert-butyl ether	0.712	0.736	-	-3.4	20	102	0
Diisopropyl ether	1.142	1.084	-	5.1	20	92	0
1,1-Dichloroethane	0.632	0.609	-	3.6	20	91	0
Ethyl tert-butyl ether	0.462	0.834	-	-80.5*	20	180	0
cis-1,2-Dichloroethene	0.345	0.331	-	4.1	20	90	0
2,2-Dichloropropane	0.467	0.424	-	9.2	20	86	0
Bromochloromethane	0.147	0.145	-	1.4	20	91	0
Chloroform	0.589	0.537	-	8.8	20	87	0
Carbon tetrachloride	20	17.49	-	12.6	20	87	0
Tetrahydrofuran	0.091	0.092	-	-1.1	20	107	0
Dibromofluoromethane	0.263	0.244	-	7.2	20	91	0
1,1,1-Trichloroethane	0.506	0.461	-	8.9	20	85	0
2-Butanone	0.11	0.092	-	16.4	20	89	0
1,1-Dichloropropene	0.433	0.418	-	3.5	20	91	0
Benzene	1.263	1.197	-	5.2	20	91	0
tert-Amyl methyl ether	0.152	0.562	-	-269.7*	20	386	0
1,2-Dichloroethane-d4	0.291	0.259	-	11	20	89	0
1,2-Dichloroethane	0.457	0.394	-	13.8	20	83	0
Trichloroethene	0.337	0.32	-	5	20	88	0
Dibromomethane	0.192	0.174	-	9.4	20	89	0
1,2-Dichloropropane	0.355	0.343	-	3.4	20	93	0
Bromodichloromethane	0.439	0.39	-	11.2	20	85	0
1,4-Dioxane	1000	950.45	-	5	20	101	0
cis-1,3-Dichloropropene	0.503	0.462	-	8.2	20	88	0
Chlorobenzene-d5	1	1	-	0	20	99	0
Toluene-d8	1.389	1.345	-	3.2	20	95	0
Toluene	20	18.523	-	7.4	20	87	0
4-Methyl-2-pentanone	0.136	0.136	-	0	20	102	0
Tetrachloroethene	0.439	0.452	-	-3	20	96	0
trans-1,3-Dichloropropene	0.605	0.53	-	12.4	20	86	0
1,1,2-Trichloroethane	0.329	0.309	-	6.1	20	92	0
Chlorodibromomethane	0.421	0.38	-	9.7	20	89	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1703751	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 02/07/17 11:24	
Lab File ID	: V04170207B01	Init. Calib. Date(s)	: 01/03/17	01/03/17
Sample No	: WG976240-2	Init. Calib. Times	: 19:18	22:21
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,3-Dichloropropane	0.625	0.583	-	6.7	20	92	0
1,2-Dibromoethane	0.369	0.344	-	6.8	20	91	0
2-Hexanone	0.226	0.197	-	12.8	20	95	0
Chlorobenzene	1.201	1.129	-	6	20	89	0
Ethylbenzene	20	19.548	-	2.3	20	88	0
1,1,1,2-Tetrachloroethane	0.407	0.367	-	9.8	20	87	0
p/m Xylene	40	38.943	-	2.6	20	87	0
o Xylene	0.775	0.704	-	9.2	20	88	0
Styrene	1.252	1.163	-	7.1	20	88	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	99	0
Bromoform	0.512	0.451	-	11.9	20	92	0
Isopropylbenzene	4.016	3.708	-	7.7	20	89	0
4-Bromofluorobenzene	1.067	0.978	-	8.3	20	92	0
Bromobenzene	0.988	0.92	-	6.9	20	90	0
n-Propylbenzene	5.01	4.567	-	8.8	20	88	0
1,1,2,2-Tetrachloroethane	0.958	0.861	-	10.1	20	93	0
2-Chlorotoluene	2.987	2.672	-	10.5	20	87	0
1,3,5-Trimethylbenzene	3.584	3.122	-	12.9	20	86	0
1,2,3-Trichloropropane	0.735	0.628	-	14.6	20	89	0
4-Chlorotoluene	3.049	2.683	-	12	20	85	0
tert-Butylbenzene	2.731	2.515	-	7.9	20	88	0
1,2,4-Trimethylbenzene	20	17.923	-	10.4	20	83	0
sec-Butylbenzene	4.348	4.033	-	7.2	20	89	0
p-Isopropyltoluene	3.551	3.24	-	8.8	20	88	0
1,3-Dichlorobenzene	1.88	1.709	-	9.1	20	88	.09
1,4-Dichlorobenzene	1.894	1.72	-	9.2	20	88	0
n-Butylbenzene	3.505	3.233	-	7.8	20	88	0
1,2-Dichlorobenzene	1.759	1.599	-	9.1	20	90	0
1,2-Dibromo-3-chloropropan	0.132	0.109	-	17.4	20	93	0
Hexachlorobutadiene	0.641	0.667	-	-4.1	20	101	0
1,2,4-Trichlorobenzene	1.195	1.16	-	2.9	20	97	0
Naphthalene	2.774	2.295	-	17.3	20	92	0
1,2,3-Trichlorobenzene	1.098	1.044	-	4.9	20	98	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1703751	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 02/08/17 07:50	
Lab File ID	: V11170208A03	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG976646-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	88	0
Dichlorodifluoromethane	0.292	0.297	-	-1.7	20	91	0
Chloromethane	0.451	0.454	-	-0.7	20	89	0
Vinyl chloride	0.346	0.355	-	-2.6	20	92	0
Bromomethane	0.152	0.154	-	-1.3	20	92	0
Chloroethane	0.177	0.191	-	-7.9	20	88	0
Trichlorofluoromethane	0.361	0.393	-	-8.9	20	96	0
Ethyl ether	0.146	0.15	-	-2.7	20	91	0
1,1-Dichloroethene	0.199	0.205	-	-3	20	92	0
Carbon disulfide	0.765	0.836	-	-9.3	20	101	0
Freon-113	0.18	0.2	-	-11.1	20	98	0
Acrolein	0.034	0.031	-	8.8	20	68	0
Methylene chloride	0.264	0.267	-	-1.1	20	92	0
Acetone	0.106	0.099	-	6.6	20	77	0
trans-1,2-Dichloroethene	0.234	0.236	-	-0.9	20	88	0
Methyl acetate	0.222	0.222	-	0	20	95	0
Methyl tert-butyl ether	0.756	0.775	-	-2.5	20	93	0
tert-Butyl alcohol	0.026	0.026	-	0	20	95	0
Diisopropyl ether	1.413	1.48	-	-4.7	20	94	0
1,1-Dichloroethane	0.565	0.582	-	-3	20	92	0
Halothane	0.14	0.143	-	-2.1	20	92	0
Acrylonitrile	0.105	0.111	-	-5.7	20	93	0
Ethyl tert-butyl ether	1.043	1.077	-	-3.3	20	94	0
Vinyl acetate	0.941	1.003	-	-6.6	20	96	0
cis-1,2-Dichloroethene	0.265	0.27	-	-1.9	20	90	0
2,2-Dichloropropane	0.39	0.413	-	-5.9	20	94	0
Bromochloromethane	0.114	0.113	-	0.9	20	87	0
Cyclohexane	0.523	0.583	-	-11.5	20	100	0
Chloroform	0.478	0.487	-	-1.9	20	90	0
Ethyl acetate	0.342	0.356	-	-4.1	20	95	0
Carbon tetrachloride	0.317	0.332	-	-4.7	20	93	0
Tetrahydrofuran	0.128	0.138	-	-7.8	20	96	0
Dibromofluoromethane	0.236	0.234	-	0.8	20	88	0
1,1,1-Trichloroethane	0.389	0.41	-	-5.4	20	92	0
2-Butanone	0.158	0.145	-	8.2	20	84	0
1,1-Dichloropropene	0.348	0.368	-	-5.7	20	93	0
Benzene	1.024	1.029	-	-0.5	20	90	0
tert-Amyl methyl ether	0.7	0.725	-	-3.6	20	93	0
1,2-Dichloroethane-d4	0.321	0.32	-	0.3	20	90	0
1,2-Dichloroethane	0.45	0.46	-	-2.2	20	90	0
Methyl cyclohexane	0.357	0.392	-	-9.8	20	98	0
Trichloroethene	0.257	0.26	-	-1.2	20	90	0
Dibromomethane	0.151	0.152	-	-0.7	20	90	0
1,2-Dichloropropane	0.318	0.329	-	-3.5	20	92	0
2-Chloroethyl vinyl ether	0.161	0.172	-	-6.8	20	94	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1703751	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 02/08/17 07:50	
Lab File ID	: V11170208A03	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG976646-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.365	0.365	-	0	20	90	0
1,4-Dioxane	0.00225	0.00218	-	3.1	20	84	0
cis-1,3-Dichloropropene	0.432	0.442	-	-2.3	20	93	0
Chlorobenzene-d5	1	1	-	0	20	89	0
Toluene-d8	1.352	1.357	-	-0.4	20	89	0
Toluene	0.899	0.896	-	0.3	20	89	0
4-Methyl-2-pentanone	0.145	0.142	-	2.1	20	93	0
Tetrachloroethene	0.327	0.329	-	-0.6	20	88	0
trans-1,3-Dichloropropene	0.548	0.564	-	-2.9	20	93	0
Ethyl methacrylate	20	18.923	-	5.4	20	93	0
1,1,2-Trichloroethane	0.261	0.271	-	-3.8	20	91	0
Chlorodibromomethane	0.335	0.335	-	0	20	89	0
1,3-Dichloropropane	0.562	0.581	-	-3.4	20	92	0
1,2-Dibromoethane	0.285	0.293	-	-2.8	20	90	0
2-Hexanone	0.306	0.313	-	-2.3	20	93	0
Chlorobenzene	0.972	0.967	-	0.5	20	89	0
Ethylbenzene	1.74	1.764	-	-1.4	20	90	0
1,1,1,2-Tetrachloroethane	0.341	0.34	-	0.3	20	89	0
p/m Xylene	0.631	0.637	-	-1	20	89	0
o Xylene	0.603	0.602	-	0.2	20	88	0
Styrene	1.018	1.014	-	0.4	20	89	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	88	0
Bromoform	0.412	0.408	-	1	20	88	0
Isopropylbenzene	3.309	3.429	-	-3.6	20	90	0
4-Bromofluorobenzene	1.064	1.095	-	-2.9	20	90	0
Bromobenzene	0.78	0.782	-	-0.3	20	89	0
n-Propylbenzene	4.144	4.415	-	-6.5	20	92	0
1,4-Dichlorobutane	1.642	1.726	-	-5.1	20	93	0
1,1,2,2-Tetrachloroethane	0.783	0.803	-	-2.6	20	90	0
4-Ethyltoluene	3.249	3.365	-	-3.6	20	90	0
2-Chlorotoluene	2.943	3.039	-	-3.3	20	90	0
1,3,5-Trimethylbenzene	2.832	2.948	-	-4.1	20	91	0
1,2,3-Trichloropropane	0.664	0.687	-	-3.5	20	91	0
trans-1,4-Dichloro-2-buten	0.327	0.35	-	-7	20	94	0
4-Chlorotoluene	2.607	2.733	-	-4.8	20	92	0
tert-Butylbenzene	2.294	2.367	-	-3.2	20	89	0
1,2,4-Trimethylbenzene	2.895	2.978	-	-2.9	20	89	0
sec-Butylbenzene	3.577	3.775	-	-5.5	20	91	0
p-Isopropyltoluene	2.913	3.059	-	-5	20	90	0
1,3-Dichlorobenzene	1.545	1.584	-	-2.5	20	89	0
1,4-Dichlorobenzene	1.555	1.584	-	-1.9	20	91	0
p-Diethylbenzene	1.703	1.81	-	-6.3	20	92	0
n-Butylbenzene	2.973	3.23	-	-8.6	20	95	0
1,2-Dichlorobenzene	1.448	1.44	-	0.6	20	88	0
1,2,4,5-Tetramethylbenzene	2.748	2.859	-	-4	20	91	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1703751	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 02/08/17 07:50	
Lab File ID	: V11170208A03	**Init. Calib. Date(s)**	: 01/30/17	01/31/17
Sample No	: WG976646-2	**Init. Calib. Times**	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.104	0.097	-	6.7	20	89	0
1,3,5-Trichlorobenzene	1.101	1.129	-	-2.5	20	89	0
Hexachlorobutadiene	0.485	0.478	-	1.4	20	85	0
1,2,4-Trichlorobenzene	0.985	1.029	-	-4.5	20	91	0
Naphthalene	2.073	2.201	-	-6.2	20	94	0
1,2,3-Trichlorobenzene	0.892	0.918	-	-2.9	20	89	0

* Value outside of QC limits.

I:\Pest11\170210\11170210-01.d

Data File Name	**11170210-01.d**
Data File Path	**I:\Pest11\170210**
Operator	**PEST11:keg**
Date Acquired	**2/10/2017 9:56**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem1117021001,42ee,,deg std 7681**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.92	800836075.9	% Breakdown
4,4'-DDE	4.27	2678990.263	
4,4'-DDD	4.72	4785670.243	0.92%
Endrin	4.66	578082854.1	% Breakdown
Endrin Aldehyde	5.12	827135.713	
Endrin Ketone	5.61	7388575.293	1.40%
4,4'-DDT #2	5.49	652582328.00	% Breakdown
4,4'-DDE #2	4.85	2837029.49	
4,4'-DDD #2	5.27	4930095.282	1.18%
Endrin #2	5.21	482908725.3	% Breakdown
Endrin Aldehyde #2	5.58	3019693.02	
Endrin Ketone #2	6.13	5719585.805	1.78%

######### Data File Path **I:\Pest17\150918**

L1703751-01d,02,03,04d,05,06d

I:\Pest15\170206\15170206-01.d

Data File Name	**15170206-01.d**
Data File Path	**I:\Pest15\170206**
Operator	**PEST15:RL**
Date Acquired	**2/6/2017 12:21**
Acq. Method File	**PEST.M**
Sample Name	**PEM1517020601,42EE,,deg std 7681**
Instrument Name	**Pest 15**

Name	Ret Time	Response	
4,4'-DDT	4.85	830937741.1	% Breakdown
4,4'-DDE	4.19	2221806.887	
4,4'-DDD	4.65	4126265.75	0.76%
Endrin	4.58	477232231.4	% Breakdown
Endrin Aldehyde	5.05	7897504.703	
Endrin Ketone	5.54	8705258.696	3.36%
4,4'-DDT #2	5.46	545597459.31	% Breakdown
4,4'-DDE #2	4.82	1639559.87	
4,4'-DDD #2	5.24	6273135.927	1.43%
Endrin #2	5.18	317677991.5	% Breakdown
Endrin Aldehyde #2	5.56	4834333.802	
Endrin Ketone #2	6.11	4852295.427	2.96%

######### Data File Path **I:\Pest17\150918**

wg975528-1,2,3,4,5

ANALYTICAL REPORT

Lab Number:	L1704149
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:	02/14/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NH (2003), NY (1114 (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1704149
Report Date: 02/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1704149-01	MBTA_WM_S1	SOIL	1 HORIZON WAY, EVERETT, MA	02/08/17 09:30	02/08/17
L1704149-02	MBTA_WM_S2	SOIL	1 HORIZON WAY, EVERETT, MA	02/08/17 09:30	02/08/17
L1704149-03	HWAY_WM_S1	SOIL	1 HORIZON WAY, EVERETT, MA	02/08/17 09:30	02/08/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

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: L1704149
Report Date: 02/14/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1704149-01 through -03, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0014), as well as the average response factor for 1,4-dioxane. The initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (66%) and carbon disulfide (66%), but within overall method criteria.

The continuing calibration standard, associated with L1704149-01 through -03, 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

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1704149-01 through -03: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG977044-2/-3 LCS/LCSD recoveries, associated with L1704149-01 through -03, are below the acceptance criteria for dinoseb (7%/12%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

Case Narrative (continued)

Non-MCP Related Narratives

Specific Conductance @ 25 C

The WG976746-2 Laboratory Duplicate RPD (34%), performed on L1704149-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 02/14/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/12/17 11:05
Analyst: MV
Percent Solids: 79%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.93	--	1
Chloroform	ND		ug/kg	0.93	--	1
Carbon tetrachloride	ND		ug/kg	0.62	--	1
1,2-Dichloropropane	ND		ug/kg	2.2	--	1
Dibromochloromethane	ND		ug/kg	0.62	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	--	1
Tetrachloroethene	ND		ug/kg	0.62	--	1
Chlorobenzene	ND		ug/kg	0.62	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.62	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	--	1
Bromodichloromethane	ND		ug/kg	0.62	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	--	1
1,1-Dichloropropene	ND		ug/kg	2.5	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Benzene	ND		ug/kg	0.62	--	1
Toluene	ND		ug/kg	0.93	--	1
Ethylbenzene	ND		ug/kg	0.62	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.62	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.93	--	1
Trichloroethene	0.63		ug/kg	0.62	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01 Date Collected: 02/08/17 09:30

Client ID: MBTA_WM_S1 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.62	--	1
Dibromomethane	ND		ug/kg	2.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	6.2	--	1
Acetone	ND		ug/kg	22	--	1
Carbon disulfide	ND		ug/kg	2.5	--	1
Methyl ethyl ketone	ND		ug/kg	6.2	--	1
Methyl isobutyl ketone	ND		ug/kg	6.2	--	1
2-Hexanone	ND		ug/kg	6.2	--	1
Bromochloromethane	ND		ug/kg	2.5	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	3.1	--	1
1,2-Dibromoethane	ND		ug/kg	2.5	--	1
1,3-Dichloropropane	ND		ug/kg	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Bromobenzene	ND		ug/kg	3.1	--	1
n-Butylbenzene	ND		ug/kg	0.62	--	1
sec-Butylbenzene	ND		ug/kg	0.62	--	1
tert-Butylbenzene	ND		ug/kg	2.5	--	1
o-Chlorotoluene	ND		ug/kg	2.5	--	1
p-Chlorotoluene	ND		ug/kg	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.62	--	1
p-Isopropyltoluene	ND		ug/kg	0.62	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.62	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01 Date Collected: 02/08/17 09:30

Client ID: MBTA_WM_S1 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.1	--	1
Diisopropyl Ether	ND		ug/kg	2.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.5	--	1
1,4-Dioxane	ND		ug/kg	25	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	106		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/12/17 11:31
Analyst: MV
Percent Solids: 85%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.76	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.76	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.76	--	1
Chlorobenzene	ND		ug/kg	0.76	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.76	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	--	1
Bromodichloromethane	ND		ug/kg	0.76	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.76	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.76	--	1
1,1-Dichloropropene	ND		ug/kg	3.0	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	--	1
Benzene	ND		ug/kg	0.76	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.76	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.76	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.76	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02 Date Collected: 02/08/17 09:30

Client ID: MBTA_WM_S2 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	1.5	--	1
Xylenes, Total	ND		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.76	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.76	--	1
Dibromomethane	ND		ug/kg	3.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.6	--	1
Acetone	ND		ug/kg	27	--	1
Carbon disulfide	ND		ug/kg	3.0	--	1
Methyl ethyl ketone	ND		ug/kg	7.6	--	1
Methyl isobutyl ketone	ND		ug/kg	7.6	--	1
2-Hexanone	ND		ug/kg	7.6	--	1
Bromochloromethane	ND		ug/kg	3.0	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	3.8	--	1
1,2-Dibromoethane	ND		ug/kg	3.0	--	1
1,3-Dichloropropane	ND		ug/kg	3.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.76	--	1
Bromobenzene	ND		ug/kg	3.8	--	1
n-Butylbenzene	ND		ug/kg	0.76	--	1
sec-Butylbenzene	ND		ug/kg	0.76	--	1
tert-Butylbenzene	ND		ug/kg	3.0	--	1
o-Chlorotoluene	ND		ug/kg	3.0	--	1
p-Chlorotoluene	ND		ug/kg	3.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.76	--	1
p-Isopropyltoluene	ND		ug/kg	0.76	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.76	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT
Lab Number: L1704149
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.8	--	1
Diisopropyl Ether	ND		ug/kg	3.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.0	--	1
1,4-Dioxane	ND		ug/kg	30	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/12/17 11:57
Analyst: MV
Percent Solids: 76%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.75	--	1
1,2-Dichloropropane	ND		ug/kg	2.6	--	1
Dibromochloromethane	ND		ug/kg	0.75	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.75	--	1
Chlorobenzene	ND		ug/kg	0.75	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.75	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	--	1
Bromodichloromethane	ND		ug/kg	0.75	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.75	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	--	1
1,1-Dichloropropene	ND		ug/kg	3.0	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	--	1
Benzene	ND		ug/kg	0.75	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.75	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.75	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.75	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03 Date Collected: 02/08/17 09:30

Client ID: HWAY_WM_S1 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	1.5	--	1
Xylenes, Total	ND		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.75	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.75	--	1
Dibromomethane	ND		ug/kg	3.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.5	--	1
Acetone	ND		ug/kg	27	--	1
Carbon disulfide	ND		ug/kg	3.0	--	1
Methyl ethyl ketone	ND		ug/kg	7.5	--	1
Methyl isobutyl ketone	ND		ug/kg	7.5	--	1
2-Hexanone	ND		ug/kg	7.5	--	1
Bromochloromethane	ND		ug/kg	3.0	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	3.8	--	1
1,2-Dibromoethane	ND		ug/kg	3.0	--	1
1,3-Dichloropropane	ND		ug/kg	3.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	--	1
Bromobenzene	ND		ug/kg	3.8	--	1
n-Butylbenzene	ND		ug/kg	0.75	--	1
sec-Butylbenzene	ND		ug/kg	0.75	--	1
tert-Butylbenzene	ND		ug/kg	3.0	--	1
o-Chlorotoluene	ND		ug/kg	3.0	--	1
p-Chlorotoluene	ND		ug/kg	3.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.75	--	1
p-Isopropyltoluene	ND		ug/kg	0.75	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.75	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03 Date Collected: 02/08/17 09:30

Client ID: HWAY_WM_S1 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.8	--	1
Diisopropyl Ether	ND		ug/kg	3.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.0	--	1
1,4-Dioxane	ND		ug/kg	30	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	110		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/12/17 10:40
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG977398-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/12/17 10:40
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG977398-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/12/17 10:40
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG977398-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/12/17 10:40
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG977398-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG977398-3 WG977398-4								
Methylene chloride	109		100		70-130	9		20
1,1-Dichloroethane	103		100		70-130	3		20
Chloroform	102		101		70-130	1		20
Carbon tetrachloride	102		98		70-130	4		20
1,2-Dichloropropane	104		104		70-130	0		20
Dibromochloromethane	84		84		70-130	0		20
1,1,2-Trichloroethane	95		96		70-130	1		20
Tetrachloroethene	91		88		70-130	3		20
Chlorobenzene	88		88		70-130	0		20
Trichlorofluoromethane	91		86		70-130	6		20
1,2-Dichloroethane	98		97		70-130	1		20
1,1,1-Trichloroethane	104		98		70-130	6		20
Bromodichloromethane	101		99		70-130	2		20
trans-1,3-Dichloropropene	81		81		70-130	0		20
cis-1,3-Dichloropropene	90		91		70-130	1		20
1,1-Dichloropropene	105		101		70-130	4		20
Bromoform	71		73		70-130	3		20
1,1,2,2-Tetrachloroethane	85		87		70-130	2		20
Benzene	105		102		70-130	3		20
Toluene	92		89		70-130	3		20
Ethylbenzene	91		89		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG977398-3 WG977398-4								
Chloromethane	95		91		70-130	4		20
Bromomethane	86		83		70-130	4		20
Vinyl chloride	86		81		70-130	6		20
Chloroethane	92		89		70-130	3		20
1,1-Dichloroethene	101		95		70-130	6		20
trans-1,2-Dichloroethene	104		100		70-130	4		20
Trichloroethene	102		99		70-130	3		20
1,2-Dichlorobenzene	83		84		70-130	1		20
1,3-Dichlorobenzene	84		84		70-130	0		20
1,4-Dichlorobenzene	82		84		70-130	2		20
Methyl tert butyl ether	105		103		70-130	2		20
p/m-Xylene	93		91		70-130	2		20
o-Xylene	85		83		70-130	2		20
cis-1,2-Dichloroethene	105		102		70-130	3		20
Dibromomethane	100		102		70-130	2		20
1,4-Dichlorobutane	86		86		70-130	0		20
1,2,3-Trichloropropane	84		86		70-130	2		20
Styrene	80		81		70-130	1		20
Dichlorodifluoromethane	88		81		70-130	8		20
Acetone	104		99		70-130	5		20
Carbon disulfide	97		91		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG977398-3 WG977398-4								
Methyl ethyl ketone	84		89		70-130	6		20
Methyl isobutyl ketone	81		80		70-130	1		20
2-Hexanone	**69**	Q	70		70-130	1		20
Ethyl methacrylate	71		**69**	Q	70-130	3		20
Acrylonitrile	96		94		70-130	2		20
Bromochloromethane	106		103		70-130	3		20
Tetrahydrofuran	115		113		70-130	2		20
2,2-Dichloropropane	105		99		70-130	6		20
1,2-Dibromoethane	87		86		70-130	1		20
1,3-Dichloropropane	93		92		70-130	1		20
1,1,1,2-Tetrachloroethane	89		91		70-130	2		20
Bromobenzene	82		85		70-130	4		20
n-Butylbenzene	86		86		70-130	0		20
sec-Butylbenzene	87		85		70-130	2		20
tert-Butylbenzene	86		84		70-130	2		20
o-Chlorotoluene	85		85		70-130	0		20
p-Chlorotoluene	86		86		70-130	0		20
1,2-Dibromo-3-chloropropane	76		79		70-130	4		20
Hexachlorobutadiene	84		82		70-130	2		20
Isopropylbenzene	79		78		70-130	1		20
p-Isopropyltoluene	79		79		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG977398-3 WG977398-4								
Naphthalene	72		73		70-130	1		20
n-Propylbenzene	85		84		70-130	1		20
1,2,3-Trichlorobenzene	83		86		70-130	4		20
1,2,4-Trichlorobenzene	80		82		70-130	2		20
1,3,5-Trimethylbenzene	86		86		70-130	0		20
1,2,4-Trimethylbenzene	81		82		70-130	1		20
trans-1,4-Dichloro-2-butene	78		78		70-130	0		20
Diethyl ether	93		89		70-130	4		20
Diisopropyl Ether	104		102		70-130	2		20
Ethyl-Tert-Butyl-Ether	103		103		70-130	0		20
Tertiary-Amyl Methyl Ether	94		94		70-130	0		20
1,4-Dioxane	99		102		70-130	3		20
2-Chloroethylvinyl ether	88		83		70-130	6		20
Halothane	104		101		70-130	3		20
Ethyl Acetate	92		88		70-130	4		20
Freon-113	99		94		70-130	5		20
Vinyl acetate	88		87		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG977398-3 WG977398-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	103		102		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/12/17 04:29
Analyst: KV
Percent Solids: 79%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

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	740		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	430		ug/kg	120	--	1
Benzo(a)pyrene	390		ug/kg	160	--	1
Benzo(b)fluoranthene	500		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01 Date Collected: 02/08/17 09:30

Client ID: MBTA_WM_S1 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	160		ug/kg	120	--	1
Chrysene	420		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	ND		ug/kg	120	--	1
Benzo(ghi)perylene	220		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	290		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	240		ug/kg	160	--	1
Pyrene	680		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		30-130
Phenol-d6	83		30-130
Nitrobenzene-d5	88		30-130
2-Fluorobiphenyl	87		30-130
2,4,6-Tribromophenol	76		30-130
4-Terphenyl-d14	75		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/12/17 04:55
Analyst: KV
Percent Solids: 85%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	1600		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	9100	E	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	3800		ug/kg	120	--	1
Benzo(a)pyrene	3500		ug/kg	160	--	1
Benzo(b)fluoranthene	3800		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02 Date Collected: 02/08/17 09:30

Client ID: MBTA_WM_S2 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	1200		ug/kg	120	--	1
Chrysene	4400		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	1600		ug/kg	120	--	1
Benzo(ghi)perylene	2100		ug/kg	160	--	1
Fluorene	1200		ug/kg	190	--	1
Phenanthrene	13000	E	ug/kg	120	--	1
Dibenzo(a,h)anthracene	490		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	1900		ug/kg	160	--	1
Pyrene	13000	E	ug/kg	120	--	1
Aniline	ND		ug/kg	230	--	1
4-Chloroaniline	ND		ug/kg	190	--	1
Dibenzofuran	200		ug/kg	190	--	1
2-Methylnaphthalene	270		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		30-130
Phenol-d6	69		30-130
Nitrobenzene-d5	86		30-130
2-Fluorobiphenyl	81		30-130
2,4,6-Tribromophenol	71		30-130
4-Terphenyl-d14	65		30-130

Project Name: WYNN EVERETT
Lab Number: L1704149
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02 D
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/14/17 13:40
Analyst: PS
Percent Solids: 85%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Fluoranthene	11000		ug/kg	460	--	4
Phenanthrene	15000		ug/kg	460	--	4
Pyrene	14000		ug/kg	460	--	4

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/12/17 05:20
Analyst: KV
Percent Solids: 76%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	400		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	11000	E	ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	940		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	4800		ug/kg	130	--	1
Benzo(a)pyrene	3600		ug/kg	170	--	1
Benzo(b)fluoranthene	5400		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704149

Project Number: 171521.52 **Report Date:** 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03 Date Collected: 02/08/17 09:30

Client ID: HWAY_WM_S1 Date Received: 02/08/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	1700		ug/kg	130	--	1
Chrysene	4800		ug/kg	130	--	1
Acenaphthylene	720		ug/kg	170	--	1
Anthracene	1800		ug/kg	130	--	1
Benzo(ghi)perylene	2000		ug/kg	170	--	1
Fluorene	520		ug/kg	220	--	1
Phenanthrene	6300		ug/kg	130	--	1
Dibenzo(a,h)anthracene	670		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	2400		ug/kg	170	--	1
Pyrene	8900	E	ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	460		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	470	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	430	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		30-130
Phenol-d6	88		30-130
Nitrobenzene-d5	94		30-130
2-Fluorobiphenyl	82		30-130
2,4,6-Tribromophenol	87		30-130
4-Terphenyl-d14	57		30-130

Project Name: WYNN EVERETT
Lab Number: L1704149
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03 D
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/13/17 23:05
Analyst: PS
Percent Solids: 76%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Fluoranthene	12000		ug/kg	260	--	2
Pyrene	10000		ug/kg	260	--	2

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/11/17 22:32
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG976645-1					
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: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/11/17 22:32
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG976645-1					
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	780	--
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: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/11/17 22:32
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 02/09/17 08:30

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG976645-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		30-130
Phenol-d6	56		30-130
Nitrobenzene-d5	55		30-130
2-Fluorobiphenyl	56		30-130
2,4,6-Tribromophenol	56		30-130
4-Terphenyl-d14	72		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG976645-2 WG976645-3								
Acenaphthene	65		66		40-140	2		30
1,2,4-Trichlorobenzene	65		68		40-140	5		30
Hexachlorobenzene	69		66		40-140	4		30
Bis(2-chloroethyl)ether	62		64		40-140	3		30
2-Chloronaphthalene	71		73		40-140	3		30
1,2-Dichlorobenzene	59		64		40-140	8		30
1,3-Dichlorobenzene	54		60		40-140	11		30
1,4-Dichlorobenzene	56		62		40-140	10		30
3,3'-Dichlorobenzidine	53		43		40-140	21		30
2,4-Dinitrotoluene	74		71		40-140	4		30
2,6-Dinitrotoluene	80		79		40-140	1		30
Azobenzene	72		70		40-140	3		30
Fluoranthene	76		74		40-140	3		30
4-Bromophenyl phenyl ether	72		72		40-140	0		30
Bis(2-chloroisopropyl)ether	87		91		40-140	4		30
Bis(2-chloroethoxy)methane	69		72		40-140	4		30
Hexachlorobutadiene	67		72		40-140	7		30
Hexachloroethane	56		63		40-140	12		30
Isophorone	76		79		40-140	4		30
Naphthalene	64		66		40-140	3		30
Nitrobenzene	69		72		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG976645-2 WG976645-3								
Bis(2-ethylhexyl)phthalate	72		67		40-140	7		30
Butyl benzyl phthalate	78		73		40-140	7		30
Di-n-butylphthalate	75		71		40-140	5		30
Di-n-octylphthalate	74		69		40-140	7		30
Diethyl phthalate	70		67		40-140	4		30
Dimethyl phthalate	78		77		40-140	1		30
Benzo(a)anthracene	69		67		40-140	3		30
Benzo(a)pyrene	74		72		40-140	3		30
Benzo(b)fluoranthene	72		70		40-140	3		30
Benzo(k)fluoranthene	70		70		40-140	0		30
Chrysene	72		68		40-140	6		30
Acenaphthylene	72		74		40-140	3		30
Anthracene	73		72		40-140	1		30
Benzo(ghi)perylene	71		69		40-140	3		30
Fluorene	70		68		40-140	3		30
Phenanthrene	70		68		40-140	3		30
Dibenzo(a,h)anthracene	71		68		40-140	4		30
Indeno(1,2,3-cd)pyrene	72		69		40-140	4		30
Pyrene	77		74		40-140	4		30
Aniline	43		**39**	Q	40-140	10		30
4-Chloroaniline	63		56		40-140	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG976645-2 WG976645-3								
Dibenzofuran	66		66		40-140	0		30
2-Methylnaphthalene	66		68		40-140	3		30
Acetophenone	71		74		40-140	4		30
2,4,6-Trichlorophenol	81		81		30-130	0		30
2-Chlorophenol	64		68		30-130	6		30
2,4-Dichlorophenol	75		77		30-130	3		30
2,4-Dimethylphenol	78		80		30-130	3		30
2-Nitrophenol	67		69		30-130	3		30
4-Nitrophenol	81		81		30-130	0		30
2,4-Dinitrophenol	45		47		30-130	4		30
Pentachlorophenol	58		56		30-130	4		30
Phenol	64		68		30-130	6		30
2-Methylphenol	72		76		30-130	5		30
3-Methylphenol/4-Methylphenol	72		75		30-130	4		30
2,4,5-Trichlorophenol	83		83		30-130	0		30
Pyridine	40		49		30-130	20		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG976645-2 WG976645-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		70		30-130
Phenol-d6	71		75		30-130
Nitrobenzene-d5	71		77		30-130
2-Fluorobiphenyl	72		74		30-130
2,4,6-Tribromophenol	67		67		30-130
4-Terphenyl-d14	73		71		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Lab Number: L1704149
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/12/17 14:04
Analyst: DG
Percent Solids: 79%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/12/17 00:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	48900		ug/kg	40500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	117		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/12/17 14:37
Analyst: DG
Percent Solids: 85%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/12/17 00:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	107000		ug/kg	36800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/12/17 15:09
Analyst: DG
Percent Solids: 76%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/12/17 00:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	181000		ug/kg	43600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 02/12/17 12:26
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 02/12/17 00:03

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-03 Batch: WG977175-1					
TPH	ND		ug/kg	31600	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-03 Batch: WG977175-2								
TPH	84		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 02/11/17 19:41
Analyst: JW
Percent Solids: 79%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/10/17 19:50
Cleanup Method: EPA 3665A
Cleanup Date: 02/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.0	--	1	A
Aroclor 1221	ND		ug/kg	40.0	--	1	A
Aroclor 1232	ND		ug/kg	40.0	--	1	A
Aroclor 1242	ND		ug/kg	40.0	--	1	A
Aroclor 1248	ND		ug/kg	40.0	--	1	A
Aroclor 1254	ND		ug/kg	40.0	--	1	A
Aroclor 1260	ND		ug/kg	40.0	--	1	B
Aroclor 1262	ND		ug/kg	40.0	--	1	A
Aroclor 1268	ND		ug/kg	40.0	--	1	A
PCBs, Total	ND		ug/kg	40.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID:	L1704149-02	Date Collected:	02/08/17 09:30
Client ID:	MBTA_WM_S2	Date Received:	02/08/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	02/10/17 19:50
Analytical Date:	02/11/17 19:55	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	02/11/17
Percent Solids:	85%	Cleanup Method:	EPA 3660B
		Cleanup Date:	02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	38.0	--	1	A
Aroclor 1260	ND		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	ND		ug/kg	38.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID:	L1704149-03	Date Collected:	02/08/17 09:30
Client ID:	HWAY_WM_S1	Date Received:	02/08/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	02/10/17 19:50
Analytical Date:	02/11/17 20:08	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	02/11/17
Percent Solids:	76%	Cleanup Method:	EPA 3660B
		Cleanup Date:	02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.7	--	1	A
Aroclor 1221	ND		ug/kg	42.7	--	1	A
Aroclor 1232	ND		ug/kg	42.7	--	1	A
Aroclor 1242	ND		ug/kg	42.7	--	1	A
Aroclor 1248	ND		ug/kg	42.7	--	1	A
Aroclor 1254	ND		ug/kg	42.7	--	1	A
Aroclor 1260	ND		ug/kg	42.7	--	1	B
Aroclor 1262	ND		ug/kg	42.7	--	1	A
Aroclor 1268	ND		ug/kg	42.7	--	1	A
PCBs, Total	ND		ug/kg	42.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 02/11/17 12:07
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 02/10/17 19:50
Cleanup Method: EPA 3665A
Cleanup Date: 02/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-03 Batch: WG977019-1						
Aroclor 1016	ND		ug/kg	31.6	--	A
Aroclor 1221	ND		ug/kg	31.6	--	A
Aroclor 1232	ND		ug/kg	31.6	--	A
Aroclor 1242	ND		ug/kg	31.6	--	A
Aroclor 1248	ND		ug/kg	31.6	--	A
Aroclor 1254	ND		ug/kg	31.6	--	A
Aroclor 1260	ND		ug/kg	31.6	--	A
Aroclor 1262	ND		ug/kg	31.6	--	A
Aroclor 1268	ND		ug/kg	31.6	--	A
PCBs, Total	ND		ug/kg	31.6	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	75		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-03 Batch: WG977019-2 WG977019-3									
Aroclor 1016	99		86		40-140	14		30	A
Aroclor 1260	82		69		40-140	17		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		79		30-150	A
Decachlorobiphenyl	81		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		87		30-150	B
Decachlorobiphenyl	79		69		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/11/17 22:02
Analyst: RL
Percent Solids: 79%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/11/17 06:25
Cleanup Method: EPA 3620B
Cleanup Date: 02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.99	--	1	A
Lindane	ND		ug/kg	3.33	--	1	A
Alpha-BHC	ND		ug/kg	4.16	--	1	A
Beta-BHC	ND		ug/kg	9.99	--	1	A
Heptachlor	ND		ug/kg	5.00	--	1	A
Aldrin	ND		ug/kg	9.99	--	1	A
Heptachlor epoxide	ND		ug/kg	18.7	--	1	A
Endrin	ND		ug/kg	4.16	--	1	A
Endrin ketone	ND		ug/kg	9.99	--	1	A
Dieldrin	ND		ug/kg	6.25	--	1	A
4,4'-DDE	ND		ug/kg	9.99	--	1	A
4,4'-DDD	ND		ug/kg	9.99	--	1	A
4,4'-DDT	ND		ug/kg	18.7	--	1	A
Endosulfan I	ND		ug/kg	9.99	--	1	A
Endosulfan II	ND		ug/kg	9.99	--	1	A
Endosulfan sulfate	ND		ug/kg	4.16	--	1	A
Methoxychlor	ND		ug/kg	18.7	--	1	A
Chlordane	ND		ug/kg	81.2	--	1	A
Hexachlorobenzene	ND		ug/kg	9.99	--	1	A
Toxaphene	ND		ug/kg	187	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/14/17 00:48
Analyst: DM
Percent Solids: 79%
Methylation Date: 02/11/17 18:33

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/11/17 01:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4100	--	1	A
MCPA	ND		ug/kg	4100	--	1	A
Dalapon	ND		ug/kg	41	--	1	A
Dicamba	ND		ug/kg	41	--	1	A
Dichloroprop	ND		ug/kg	41	--	1	A
2,4-D	ND		ug/kg	41	--	1	A
2,4-DB	ND		ug/kg	41	--	1	A
2,4,5-T	ND		ug/kg	41	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	41	--	1	A
Dinoseb	ND		ug/kg	41	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	101		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/11/17 22:15
Analyst: RL
Percent Solids: 85%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/11/17 06:25
Cleanup Method: EPA 3620B
Cleanup Date: 02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.16	--	1	A
Lindane	ND		ug/kg	3.05	--	1	A
Alpha-BHC	ND		ug/kg	3.82	--	1	A
Beta-BHC	ND		ug/kg	9.16	--	1	A
Heptachlor	ND		ug/kg	4.58	--	1	A
Aldrin	ND		ug/kg	9.16	--	1	A
Heptachlor epoxide	ND		ug/kg	17.2	--	1	A
Endrin	ND		ug/kg	3.82	--	1	A
Endrin ketone	ND		ug/kg	9.16	--	1	A
Dieldrin	ND		ug/kg	5.72	--	1	A
4,4'-DDE	ND		ug/kg	9.16	--	1	A
4,4'-DDD	ND		ug/kg	9.16	--	1	A
4,4'-DDT	ND		ug/kg	17.2	--	1	A
Endosulfan I	ND		ug/kg	9.16	--	1	A
Endosulfan II	ND		ug/kg	9.16	--	1	A
Endosulfan sulfate	ND		ug/kg	3.82	--	1	A
Methoxychlor	ND		ug/kg	17.2	--	1	A
Chlordane	ND		ug/kg	74.4	--	1	A
Hexachlorobenzene	ND		ug/kg	9.16	--	1	A
Toxaphene	ND		ug/kg	172	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/14/17 01:07
Analyst: DM
Percent Solids: 85%
Methylation Date: 02/11/17 18:33

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/11/17 01:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3900	--	1	A
MCPA	ND		ug/kg	3900	--	1	A
Dalapon	ND		ug/kg	39	--	1	A
Dicamba	ND		ug/kg	39	--	1	A
Dichloroprop	ND		ug/kg	39	--	1	A
2,4-D	ND		ug/kg	39	--	1	A
2,4-DB	ND		ug/kg	39	--	1	A
2,4,5-T	ND		ug/kg	39	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	39	--	1	A
Dinoseb	ND		ug/kg	39	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	122		30-150	A
DCAA	114		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/11/17 22:27
Analyst: RL
Percent Solids: 76%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/11/17 06:25
Cleanup Method: EPA 3620B
Cleanup Date: 02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.2	--	1	A
Lindane	ND		ug/kg	3.42	--	1	A
Alpha-BHC	ND		ug/kg	4.27	--	1	A
Beta-BHC	ND		ug/kg	10.2	--	1	A
Heptachlor	ND		ug/kg	5.13	--	1	A
Aldrin	ND		ug/kg	10.2	--	1	A
Heptachlor epoxide	ND		ug/kg	19.2	--	1	A
Endrin	ND		ug/kg	4.27	--	1	A
Endrin ketone	ND		ug/kg	10.2	--	1	A
Dieldrin	ND		ug/kg	6.41	--	1	A
4,4'-DDE	ND		ug/kg	10.2	--	1	A
4,4'-DDD	ND		ug/kg	10.2	--	1	A
4,4'-DDT	ND		ug/kg	19.2	--	1	A
Endosulfan I	ND		ug/kg	10.2	--	1	A
Endosulfan II	ND		ug/kg	10.2	--	1	A
Endosulfan sulfate	ND		ug/kg	4.27	--	1	A
Methoxychlor	ND		ug/kg	19.2	--	1	A
Chlordane	ND		ug/kg	83.3	--	1	A
Hexachlorobenzene	ND		ug/kg	10.2	--	1	A
Toxaphene	ND		ug/kg	192	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**196**	Q	30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/14/17 01:27
Analyst: DM
Percent Solids: 76%
Methylation Date: 02/11/17 18:33

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/11/17 01:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4300	--	1	A
MCPA	ND		ug/kg	4300	--	1	A
Dalapon	ND		ug/kg	43	--	1	A
Dicamba	ND		ug/kg	43	--	1	A
Dichloroprop	ND		ug/kg	43	--	1	A
2,4-D	ND		ug/kg	43	--	1	A
2,4-DB	ND		ug/kg	43	--	1	A
2,4,5-T	ND		ug/kg	43	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	43	--	1	A
Dinoseb	ND		ug/kg	43	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	107		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 02/13/17 23:29
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 02/11/17 01:07

Methylation Date: 02/11/17 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-03 Batch: WG977044-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	108		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 02/11/17 20:34
Analyst: AMLOA

Extraction Method: EPA 3546
Extraction Date: 02/11/17 06:25
Cleanup Method: EPA 3620B
Cleanup Date: 02/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-03 Batch: WG977085-1						
Delta-BHC	ND		ug/kg	7.57	--	A
Lindane	ND		ug/kg	2.52	--	A
Alpha-BHC	ND		ug/kg	3.15	--	A
Beta-BHC	ND		ug/kg	7.57	--	A
Heptachlor	ND		ug/kg	3.78	--	A
Aldrin	ND		ug/kg	7.57	--	A
Heptachlor epoxide	ND		ug/kg	14.2	--	A
Endrin	ND		ug/kg	3.15	--	A
Endrin ketone	ND		ug/kg	7.57	--	A
Dieldrin	ND		ug/kg	4.73	--	A
4,4'-DDE	ND		ug/kg	7.57	--	A
4,4'-DDD	ND		ug/kg	7.57	--	A
4,4'-DDT	ND		ug/kg	14.2	--	A
Endosulfan I	ND		ug/kg	7.57	--	A
Endosulfan II	ND		ug/kg	7.57	--	A
Endosulfan sulfate	ND		ug/kg	3.15	--	A
Methoxychlor	ND		ug/kg	14.2	--	A
Chlordane	ND		ug/kg	61.5	--	A
Hexachlorobenzene	ND		ug/kg	7.57	--	A
Toxaphene	ND		ug/kg	142	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	66		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-03 Batch: WG977044-2 WG977044-3									
MCPP	109		106		40-140	3		30	A
MCPA	93		90		40-140	3		30	A
Dalapon	96		97		40-140	1		30	A
Dicamba	92		90		40-140	2		30	A
Dichloroprop	133		128		40-140	4		30	A
2,4-D	120		119		40-140	1		30	A
2,4-DB	118		126		40-140	7		30	A
2,4,5-T	99		96		40-140	3		30	A
2,4,5-TP (Silvex)	93		92		40-140	1		30	A
Dinoseb	**7**	Q	**12**	Q	40-140	**47**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	120		117		30-150	A
DCAA	117		108		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-03 Batch: WG977085-2 WG977085-3									
Delta-BHC	113		116		40-140	3		30	A
Lindane	116		116		40-140	0		30	A
Alpha-BHC	133		136		40-140	2		30	A
Beta-BHC	138		136		40-140	1		30	A
Heptachlor	113		119		40-140	5		30	A
Aldrin	127		133		40-140	5		30	A
Heptachlor epoxide	115		116		40-140	1		30	A
Endrin	122		128		40-140	5		30	A
Endrin ketone	108		100		40-140	8		30	A
Dieldrin	124		130		40-140	5		30	A
4,4'-DDE	120		127		40-140	6		30	A
4,4'-DDD	117		123		40-140	5		30	A
4,4'-DDT	115		123		40-140	7		30	A
Endosulfan I	116		122		40-140	5		30	A
Endosulfan II	116		118		40-140	2		30	A
Endosulfan sulfate	91		87		40-140	4		30	A
Methoxychlor	117		116		40-140	1		30	A
Hexachlorobenzene	109		115		40-140	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-03 Batch: WG977085-2 WG977085-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		77		30-150	B
Decachlorobiphenyl	71		72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		97		30-150	A
Decachlorobiphenyl	62		67		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-03 Batch: WG977085-4 WG977085-5									
Toxaphene	91		81		40-140	12		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		77		30-150	B
Decachlorobiphenyl	70		68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		82		30-150	A
Decachlorobiphenyl	56		63		30-150	A

METALS

Project Name: WYNN EVERETT
Lab Number: L1704149
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

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	2.5	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Arsenic, Total	14		mg/kg	0.49	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Barium, Total	170		mg/kg	0.49	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Beryllium, Total	0.67		mg/kg	0.25	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Cadmium, Total	1.1		mg/kg	0.49	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Chromium, Total	30		mg/kg	0.49	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Lead, Total	57		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Mercury, Total	0.258		mg/kg	0.104	--	1	02/10/17 14:05	02/13/17 14:02	EPA 7471B	97,7471B	MG
Nickel, Total	21		mg/kg	1.2	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Selenium, Total	ND		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Silver, Total	ND		mg/kg	0.49	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Vanadium, Total	37		mg/kg	0.49	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB
Zinc, Total	500		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 20:52	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1704149
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 85%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

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	2.3	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Arsenic, Total	15		mg/kg	0.46	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Barium, Total	68		mg/kg	0.46	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Beryllium, Total	0.44		mg/kg	0.23	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Cadmium, Total	ND		mg/kg	0.46	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Chromium, Total	8.9		mg/kg	0.46	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Lead, Total	170		mg/kg	2.3	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Mercury, Total	0.358		mg/kg	0.083	--	1	02/10/17 14:05	02/13/17 14:04	EPA 7471B	97,7471B	MG
Nickel, Total	11		mg/kg	1.2	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Selenium, Total	ND		mg/kg	2.3	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Silver, Total	ND		mg/kg	0.46	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.3	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Vanadium, Total	14		mg/kg	0.46	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB
Zinc, Total	100		mg/kg	2.3	--	1	02/10/17 16:50	02/13/17 20:57	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1704149
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 76%

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	18		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Arsenic, Total	180		mg/kg	0.50	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Barium, Total	120		mg/kg	0.50	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Beryllium, Total	0.33		mg/kg	0.25	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Cadmium, Total	3.2		mg/kg	0.50	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Chromium, Total	18		mg/kg	0.50	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Lead, Total	930		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Mercury, Total	0.956		mg/kg	0.094	--	1	02/10/17 14:05	02/13/17 14:06	EPA 7471B	97,7471B	MG
Nickel, Total	19		mg/kg	1.3	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Selenium, Total	5.0		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Silver, Total	5.5		mg/kg	0.50	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Vanadium, Total	37		mg/kg	0.50	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB
Zinc, Total	1300		mg/kg	2.5	--	1	02/10/17 16:50	02/13/17 21:01	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

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): 01-03 Batch: WG976896-1										
Mercury, Total	ND		mg/kg	0.083	--	1	02/10/17 14:05	02/13/17 13:19	97,7471B	MG

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): 01-03 Batch: WG976947-1										
Antimony, Total	ND		mg/kg	2.0	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Arsenic, Total	ND		mg/kg	0.40	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Barium, Total	ND		mg/kg	0.40	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.20	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Cadmium, Total	ND		mg/kg	0.40	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Chromium, Total	ND		mg/kg	0.40	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Lead, Total	ND		mg/kg	2.0	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Nickel, Total	ND		mg/kg	1.0	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Selenium, Total	ND		mg/kg	2.0	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Silver, Total	ND		mg/kg	0.40	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Thallium, Total	ND		mg/kg	2.0	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Vanadium, Total	ND		mg/kg	0.40	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB
Zinc, Total	ND		mg/kg	2.0	--	1	02/10/17 16:50	02/13/17 17:29	97,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG976896-2 WG976896-3 SRM Lot Number: D091-540								
Mercury, Total	108		101		72-128	7		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG976947-2 WG976947-3 SRM Lot Number: D091-540								
Antimony, Total	130		138		1-200	6		30
Arsenic, Total	103		103		80-121	0		30
Barium, Total	96		96		84-117	0		30
Beryllium, Total	98		102		83-117	4		30
Cadmium, Total	99		103		83-117	4		30
Chromium, Total	98		119		80-119	19		30
Lead, Total	96		96		82-118	0		30
Nickel, Total	93		101		83-117	8		30
Selenium, Total	96		101		79-121	5		30
Silver, Total	99		102		76-124	3		30
Thallium, Total	99		106		80-121	7		30
Vanadium, Total	96		96		78-122	0		30
Zinc, Total	103		103		82-118	0		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/12/17 14:35	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/12/17 14:35	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/12/17 14:35	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-01
Client ID: MBTA_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/08/17 09:30
Date Received: 02/08/17
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	170		umhos/cm	10	--	1	-	02/10/17 04:00	1,9050A	VB
Solids, Total	79.2		%	0.100	NA	1	-	02/10/17 12:19	121,2540G	RI
pH (H)	6.8		SU	-	NA	1	-	02/10/17 04:00	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/10/17 11:59	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:20	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:13	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-02
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/08/17 09:30
Date Received: 02/08/17
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	44		umhos/cm	10	--	1	-	02/10/17 04:00	1,9050A	VB
Solids, Total	85.4		%	0.100	NA	1	-	02/10/17 12:19	121,2540G	RI
pH (H)	8.3		SU	-	NA	1	-	02/10/17 04:00	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/10/17 11:59	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:20	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:13	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704149-03
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/08/17 09:30
Date Received: 02/08/17
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	490		umhos/cm	10	--	1	-	02/10/17 04:00	1,9050A	VB
Solids, Total	76.3		%	0.100	NA	1	-	02/10/17 12:19	121,2540G	RI
pH (H)	6.2		SU	-	NA	1	-	02/10/17 04:00	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/10/17 11:59	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:21	1,7.3	RP
Sulfide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:13	1,7.3	RP

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704149
Report Date: 02/14/17

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): 01-03 Batch: WG977159-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:11	1,7.3	RP
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG977160-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	02/11/17 18:10	02/11/17 20:18	1,7.3	RP

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704149

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG976654-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG976746-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG976970-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG977159-2								
Sulfide, Reactive	84		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG977160-2								
Cyanide, Reactive	61		-		30-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG976654-2 QC Sample: L1704149-01 Client ID: MBTA_WM_S1						
pH (H)	6.8	7.0	SU	3		5
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG976746-2 QC Sample: L1704149-01 Client ID: MBTA_WM_S1						
Specific Conductance @ 25 C	170	120	umhos/cm	**34**	Q	20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/09/2017 06:48

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704149-01A	Vial MeOH preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-01B	Vial water preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-01C	Vial water preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-01E	Glass 250ml/8oz unpreserved	A	N/A	4.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704149-01F	Metals Only - Glass 60mL/2oz unp	A	N/A	4.2	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)
L1704149-01G	Glass 500ml/16oz unpreserved	A	N/A	4.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704149-01H	Vial Large Septa unpreserved (4o	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(2)
L1704149-02A	Vial MeOH preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-02B	Vial water preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-02C	Vial water preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704149
Report Date: 02/14/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704149-02E	Glass 250ml/8oz unpreserved	A	N/A	4.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704149-02F	Metals Only - Glass 60mL/2oz unp	A	N/A	4.2	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)
L1704149-02G	Glass 500ml/16oz unpreserved	A	N/A	4.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704149-02H	Vial Large Septa unpreserved (4o	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(2)
L1704149-03A	Vial MeOH preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-03B	Vial water preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-03C	Vial water preserved	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(14)
L1704149-03E	Glass 250ml/8oz unpreserved	A	N/A	4.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704149-03F	Metals Only - Glass 60mL/2oz unp	A	N/A	4.2	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: L1704149
Report Date: 02/14/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704149-03G	Glass 500ml/16oz unpreserved	A	N/A	4.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704149-03H	Vial Large Septa unpreserved (4o	A	N/A	4.2	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1704149
Project Number:	171521.52	**Report Date:**	02/14/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1704149
Project Number:	171521.52	**Report Date:**	02/14/17

Data Qualifiers

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:**	L1704149
Project Number:	171521.52	**Report Date:**	02/14/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 2/9/17

CHAIN OF CUSTODY

PAGE DD 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: 2/8/17

ALPHA Job #: L1704149

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~~ Wynn Everett
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.0~~171521.52
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: MA-MCP
Criteria: 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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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, ignit	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	Sample Specific Comments
04149- 01	MBTA-WM-S1	2/8/17	09:30	SOIL	JAB	☒	☒	☒	☒	☒	☒	☒	
02	MBTA-WM-S2	2/8/17	09:30	SOIL	JAB	☒	☒	☒	☒	☒	☒	☒	
03	HWAY-WM-S2	2/8/17	09:30	SOIL	JAB	☒	☒	☒	☒	☒	☒	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2-8-2017/17:45	[signature]	2/8/17 1945

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.

CHAIN OF CUSTODY

PAGE DD 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: 2/8/17

ALPHA Job #: L1704149

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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
01	MBTA-WM-S1	2/8/17	09:30	SOIL	JAB	☒	☒	☒	☒	☒	☒	☒	
02	MBTA-WM-S2	2/8/17	09:30	SOIL	JAB	☒	☒	☒	☒	☒	☒	☒	
03	HWAY-WM-S2	2/8/17	09:30	SOIL	JAB	☒	☒	☒	☒	☒	☒	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2-8-2017/17:45	[signature]	2/8/17 1945

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1704149
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG977398-5	**Lab File ID**	: V10170212A05
Instrument ID	: VOA110		
Matrix	: SOIL	**Analysis Date**	: 02/12/17 10:40

Client Sample No.	Lab Sample ID	Analysis Date
WG977398-3LCS	WG977398-3	02/12/17 09:22
WG977398-4LCSD	WG977398-4	02/12/17 09:48
MBTA_WM_S1	L1704149-01	02/12/17 11:05
MBTA_WM_S2	L1704149-02	02/12/17 11:31
HWAY_WM_S1	L1704149-03	02/12/17 11:57

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1704149	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA110	Calibration Date	: 02/12/17 09:22	
Lab File ID	: V10170212A02	Init. Calib. Date(s)	: 01/12/17	01/12/17
Sample No	: WG977398-2	Init. Calib. Times	: 17:59	20:57
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	129	0
Dichlorodifluoromethane	0.34	0.297	-	12.6	20	111	0
Chloromethane	0.226	0.215	-	4.9	20	122	0
Vinyl chloride	0.299	0.258	-	13.7	20	109	0
Bromomethane	0.249	0.215	-	13.7	20	111	0
Chloroethane	0.196	0.18	-	8.2	20	117	0
Trichlorofluoromethane	0.513	0.468	-	8.8	20	112	0
Ethyl ether	0.162	0.151	-	6.8	20	117	0
1,1-Dichloroethene	0.22	0.222	-	-0.9	20	134	0
Carbon disulfide	0.765	0.742	-	3	20	133	0
Freon-113	0.211	0.21	-	0.5	20	123	0
Acrolein	0.022	0.019	-	13.6	20	135	0
Methylene chloride	0.268	0.293	-	-9.3	20	147	0
Acetone	20	20.877	-	-4.4	20	132	0
trans-1,2-Dichloroethene	0.24	0.249	-	-3.8	20	135	0
Methyl acetate	0.116	0.114	-	1.7	20	135	0
Methyl tert-butyl ether	0.64	0.671	-	-4.8	20	140	0
tert-Butyl alcohol	100	101.576	-	-1.6	20	149	0
Diisopropyl ether	0.614	0.639	-	-4.1	20	136	0
1,1-Dichloroethane	0.408	0.419	-	-2.7	20	131	0
Halothane	0.147	0.153	-	-4.1	20	131	0
Acrylonitrile	20	19.121	-	4.4	20	129	0
Ethyl tert-butyl ether	0.581	0.6	-	-3.3	20	136	0
Vinyl acetate	20	17.647	-	11.8	20	130	0
cis-1,2-Dichloroethene	0.253	0.266	-	-5.1	20	134	0
2,2-Dichloropropane	0.342	0.36	-	-5.3	20	140	0
Bromochloromethane	0.115	0.122	-	-6.1	20	131	0
Cyclohexane	0.298	0.315	-	-5.7	20	130	0
Chloroform	0.447	0.458	-	-2.5	20	128	0
Ethyl acetate	20	18.406	-	8	20	134	0
Carbon tetrachloride	0.309	0.317	-	-2.6	20	129	0
Tetrahydrofuran	20	23.031	-	-15.2	20	137	0
Dibromofluoromethane	0.252	0.26	-	-3.2	20	134	0
1,1,1-Trichloroethane	0.389	0.402	-	-3.3	20	132	0
2-Butanone	20	16.703	-	16.5	20	116	0
1,1-Dichloropropene	0.3	0.315	-	-5	20	133	0
Benzene	0.947	0.996	-	-5.2	20	133	0
tert-Amyl methyl ether	20	18.767	-	6.2	20	142	0
1,2-Dichloroethane-d4	0.283	0.261	-	7.8	20	121	0
1,2-Dichloroethane	0.32	0.313	-	2.2	20	122	0
Methyl cyclohexane	0.342	0.349	-	-2	20	131	0
Trichloroethene	0.256	0.262	-	-2.3	20	130	0
Dibromomethane	0.134	0.135	-	-0.7	20	129	0
1,2-Dichloropropane	0.207	0.215	-	-3.9	20	133	0
2-Chloroethyl vinyl ether	20	17.625	-	11.9	20	141	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1704149	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA110	Calibration Date	: 02/12/17 09:22	
Lab File ID	: V10170212A02	Init. Calib. Date(s)	: 01/12/17	01/12/17
Sample No	: WG977398-2	Init. Calib. Times	: 17:59	20:57
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.313	0.317	-	-1.3	20	132	0
1,4-Dioxane	0.00199	0.00197	-	1	20	141	0
cis-1,3-Dichloropropene	20	17.933	-	10.3	20	134	0
Chlorobenzene-d5	1	1	-	0	20	147	0
Toluene-d8	1.21	1.149	-	5	20	135	0
Toluene	0.82	0.751	-	8.4	20	132	0
4-Methyl-2-pentanone	20	16.132	-	19.3	20	138	0
Tetrachloroethene	0.352	0.32	-	9.1	20	129	0
trans-1,3-Dichloropropene	20	16.141	-	19.3	20	132	0
Ethyl methacrylate	20	14.183	-	29.1*	20	136	0
1,1,2-Trichloroethane	0.234	0.222	-	5.1	20	132	0
Chlorodibromomethane	20	16.826	-	15.9	20	136	0
1,3-Dichloropropane	0.463	0.43	-	7.1	20	131	0
1,2-Dibromoethane	20	17.397	-	13	20	132	0
2-Hexanone	20	13.857	-	30.7*	20	117	0
Chlorobenzene	0.89	0.787	-	11.6	20	127	0
Ethylbenzene	1.52	1.383	-	9	20	128	0
1,1,1,2-Tetrachloroethane	0.313	0.278	-	11.2	20	129	0
p/m Xylene	0.584	0.54	-	7.5	20	130	0
o Xylene	40	34.024	-	14.9	20	130	0
Styrene	40	32.123	-	19.7	20	126	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	154	0
Bromoform	20	14.279	-	28.6*	20	133	0
Isopropylbenzene	20	15.769	-	21.2*	20	126	0
4-Bromofluorobenzene	0.869	0.869	-	0	20	155	0
Bromobenzene	0.751	0.612	-	18.5	20	124	0
n-Propylbenzene	3.525	2.99	-	15.2	20	126	0
1,4-Dichlorobutane	0.802	0.687	-	14.3	20	128	0
1,1,2,2-Tetrachloroethane	0.689	0.585	-	15.1	20	127	0
4-Ethyltoluene	2.761	2.376	-	13.9	20	127	0
2-Chlorotoluene	2.16	1.833	-	15.1	20	128	0
1,3,5-Trimethylbenzene	2.416	2.087	-	13.6	20	125	0
1,2,3-Trichloropropane	0.558	0.466	-	16.5	20	127	0
trans-1,4-Dichloro-2-buten	0.166	0.13	-	21.7*	20	124	0
4-Chlorotoluene	2.103	1.818	-	13.6	20	128	0
tert-Butylbenzene	2.001	1.716	-	14.2	20	127	0
1,2,4-Trimethylbenzene	20	16.251	-	18.7	20	127	0
sec-Butylbenzene	3.049	2.652	-	13	20	127	0
p-Isopropyltoluene	20	15.884	-	20.6*	20	126	0
1,3-Dichlorobenzene	1.481	1.238	-	16.4	20	125	0
1,4-Dichlorobenzene	1.526	1.257	-	17.6	20	125	0
p-Diethylbenzene	20	15.359	-	23.2*	20	125	0
n-Butylbenzene	2.476	2.142	-	13.5	20	125	0
1,2-Dichlorobenzene	1.363	1.128	-	17.2	20	125	0
1,2,4,5-Tetramethylbenzene	20	13.994	-	30*	20	123	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1704149	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA110	**Calibration Date**	: 02/12/17 09:22	
Lab File ID	: V10170212A02	**Init. Calib. Date(s)**	: 01/12/17	01/12/17
Sample No	: WG977398-2	**Init. Calib. Times**	: 17:59	20:57
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	20	15.184	-	24.1*	20	124	0
1,3,5-Trichlorobenzene	1.02	0.839	-	17.7	20	127	0
Hexachlorobutadiene	0.5	0.419	-	16.2	20	134	0
1,2,4-Trichlorobenzene	0.869	0.7	-	19.4	20	126	0
Naphthalene	20	14.36	-	28.2*	20	127	0
1,2,3-Trichlorobenzene	0.812	0.674	-	17	20	125	0

*** Value outside of QC limits.**

I:\Pest18\170211\18170211-01.d

Data File Name	**18170211-01.d**
Data File Path	**I:\Pest18\170211**
Operator	**PEST18:keg**
Date Acquired	**2/11/2017 14:28**
Acq. Method File	**PEST.M**
Sample Name	**pem1817021101,42ee,,deg p**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
4,4'-DDT	4.79	490888526.9	% Breakdown
4,4'-DDE	4.13	799642.2	
4,4'-DDD	4.59	680046.514	0.30%
Endrin	4.52	249467030.4	% Breakdown
Endrin Aldehyde	4.99	1602293.112	
Endrin Ketone	5.49	3673965.552	2.07%
4,4'-DDT #2	5.42	246549903.4	% Breakdown
4,4'-DDE #2	4.77	743040.513	
4,4'-DDD #2	5.20	1317447.5	0.83%
Endrin #2	5.13	138569969.7	% Breakdown
Endrin Aldehyde #2	5.52	1465127.148	
Endrin Ketone #2	6.07	2051341.759	2.47%

WG977085-1, -2, -3, -4, -5
L1704149-01, -02, -03

ANALYTICAL REPORT

Lab Number:	L1704204
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:	02/14/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NH (2003), NY (1114 (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1704204
Report Date: 02/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1704204-01	SHORELINE STOCKPILE-4A	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:00	02/06/17
L1704204-02	SHORELINE STOCKPILE-4B	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:05	02/06/17
L1704204-03	SHORELINE STOCKPILE-4C	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:10	02/06/17
L1704204-04	SHORELINE STOCKPILE-4D	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:15	02/06/17
L1704204-05	SHORELINE STOCKPILE-4E	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:20	02/06/17
L1704204-06	SHORELINE STOCKPILE-4F	SOIL	1 HORIZON WAY, EVERETT, MA	02/06/17 10:25	02/06/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704204
Report Date: 02/14/17

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.

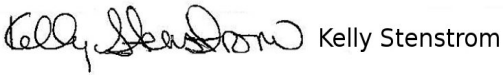
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 02/14/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1704204
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704204-01
Client ID: SHORELINE STOCKPILE-4A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:00
Date Received: 02/06/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/10/17 22:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/13/17 09:18	02/13/17 19:54	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	02/13/17 09:18	02/13/17 19:54	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1704204
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704204-02
Client ID: SHORELINE STOCKPILE-4B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:05
Date Received: 02/06/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/10/17 22:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/13/17 09:18	02/13/17 21:18	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	02/13/17 09:18	02/13/17 21:18	EPA 3015	1,6010C	AB

Project Name:	WYNN EVERETT	**Lab Number:**	L1704204
Project Number:	171521.52	**Report Date:**	02/14/17

SAMPLE RESULTS

Lab ID:	L1704204-03	Date Collected:	02/06/17 10:10
Client ID:	SHORELINE STOCKPILE-4C	Date Received:	02/06/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	02/10/17 22:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/13/17 09:18	02/13/17 21:23	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	02/13/17 09:18	02/13/17 21:23	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704204
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704204-04
Client ID: SHORELINE STOCKPILE-4D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:15
Date Received: 02/06/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/10/17 22:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/13/17 09:18	02/13/17 22:07	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	02/13/17 09:18	02/13/17 22:07	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1704204
Project Number: 171521.52
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704204-05
Client ID: SHORELINE STOCKPILE-4E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:20
Date Received: 02/06/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/10/17 22:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/13/17 09:18	02/13/17 22:12	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	02/13/17 09:18	02/13/17 22:12	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704204
Report Date: 02/14/17

SAMPLE RESULTS

Lab ID: L1704204-06
Client ID: SHORELINE STOCKPILE-4F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/06/17 10:25
Date Received: 02/06/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/10/17 22:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/13/17 09:18	02/13/17 22:16	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	02/13/17 09:18	02/13/17 22:16	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704204
Report Date: 02/14/17

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): 01-06 Batch: WG977284-1										
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/13/17 09:18	02/13/17 15:09	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	02/13/17 09:18	02/13/17 15:09	1,6010C	AB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 02/10/17 22:59

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704204

Report Date: 02/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-06 Batch: WG977284-2								
Arsenic, TCLP	108		-		75-125	-		20
Lead, TCLP	92		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704204
Report Date: 02/14/17

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): 01-06 QC Batch ID: WG977284-3 QC Sample: L1703912-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.3	108		-	-		75-125	-		20
Lead, TCLP	ND	5.1	4.8	94		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704204
Report Date: 02/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG977284-4 QC Sample: L1703912-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704204
Report Date: 02/14/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704204-01A	Glass 500ml/16oz unpreserved	A	N/A	5.7	Y	Absent	-
L1704204-01X	Plastic 120ml HNO3 preserved Ext	A	<2	5.7	Y	Absent	AS-CI(180),PB-CI(180)
L1704204-01X9	Tumble Vessel	A	N/A	5.7	Y	Absent	-
L1704204-02A	Glass 500ml/16oz unpreserved	A	N/A	5.7	Y	Absent	-
L1704204-02X	Plastic 120ml HNO3 preserved Ext	A	<2	5.7	Y	Absent	AS-CI(180),PB-CI(180)
L1704204-02X9	Tumble Vessel	A	N/A	5.7	Y	Absent	-
L1704204-03A	Glass 500ml/16oz unpreserved	A	N/A	5.7	Y	Absent	-
L1704204-03X	Plastic 120ml HNO3 preserved Ext	A	<2	5.7	Y	Absent	AS-CI(180),PB-CI(180)
L1704204-03X9	Tumble Vessel	A	N/A	5.7	Y	Absent	-
L1704204-04A	Glass 500ml/16oz unpreserved	A	N/A	5.7	Y	Absent	-
L1704204-04X	Plastic 120ml HNO3 preserved Ext	A	<2	5.7	Y	Absent	AS-CI(180),PB-CI(180)
L1704204-04X9	Tumble Vessel	A	N/A	5.7	Y	Absent	-
L1704204-05A	Glass 500ml/16oz unpreserved	A	N/A	5.7	Y	Absent	-
L1704204-05X	Plastic 120ml HNO3 preserved Ext	A	<2	5.7	Y	Absent	AS-CI(180),PB-CI(180)
L1704204-05X9	Tumble Vessel	A	N/A	5.7	Y	Absent	-
L1704204-06A	Glass 500ml/16oz unpreserved	A	N/A	5.7	Y	Absent	-
L1704204-06X	Plastic 120ml HNO3 preserved Ext	A	<2	5.7	Y	Absent	AS-CI(180),PB-CI(180)
L1704204-06X9	Tumble Vessel	A	N/A	5.7	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1704204
Project Number:	171521.52	**Report Date:**	02/14/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1704204
Project Number:	171521.52	**Report Date:**	02/14/17

Data Qualifiers

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:**	L1704204
Project Number:	171521.52	**Report Date:**	02/14/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 2/9/17

CHAIN OF CUSTODY

PAGE DD 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: 2/6/17

ALPHA Job #: ~~L1763751~~

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~~ Wynn Everett
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 (R... 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 meatals

TCLP-As,TCLP-Pb

04204

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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, ignit	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						TOTAL # BOTTLES	Sample Specific Comments
~~03751~~-01	Shoreline Stockpile - 4A	2/6/17	10:00	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
-02	Shoreline Stockpile - 4B		10:05			☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
-03	Shoreline Stockpile - 4C		10:10			☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
-04	Shoreline Stockpile - 4D		10:15			☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
-05	Shoreline Stockpile - 4E		10:20			☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
-06	Shoreline Stockpile - 4F	↓	10:25	↓	↓	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	2/6/17@14:06		2/6/17 1405
AAC	2/6/17 1707		2/6/17 1707

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:	L1704506
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:	02/17/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NH (2003), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1704506
Report Date: 02/17/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1704506-01	MBTA_WM_S2	SOIL	1 HORIZON WAY, EVERETT, MA	02/08/17 09:30	02/08/17
L1704506-02	HWAY_WM_S1	SOIL	1 HORIZON WAY, EVERETT, MA	02/08/17 09:30	02/08/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704506
Report Date: 02/17/17

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.

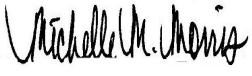
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Michelle M. Morris

Title: Technical Director/Representative Date: 02/17/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1704506
Project Number: 171521.52
Report Date: 02/17/17

SAMPLE RESULTS

Lab ID: L1704506-01
Client ID: MBTA_WM_S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/16/17 03:22

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	0.50	--	1	02/17/17 06:00	02/17/17 10:09	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704506
Report Date: 02/17/17

SAMPLE RESULTS

Lab ID: L1704506-02
Client ID: HWAY_WM_S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/08/17 09:30
Date Received: 02/08/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/16/17 03:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/17/17 06:00	02/17/17 10:22	EPA 3015	1,6010C	PS
Lead, TCLP	ND		mg/l	0.50	--	1	02/17/17 06:00	02/17/17 10:22	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704506
Report Date: 02/17/17

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: WG978640-1										
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/17/17 06:00	02/17/17 09:24	1,6010C	PS
Lead, TCLP	ND		mg/l	0.50	--	1	02/17/17 06:00	02/17/17 09:24	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 02/16/17 03:22

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704506

Report Date: 02/17/17

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: WG978640-2								
Arsenic, TCLP	100		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704506
Report Date: 02/17/17

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: WG978640-3 QC Sample: L1704506-01 Client ID: MBTA_WM_S2												
Arsenic, TCLP	ND	1.2	1.2	100		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.0	98		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704506
Report Date: 02/17/17

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: WG978640-4 QC Sample: L1704506-01 Client ID: MBTA_WM_S2						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704506
Report Date: 02/17/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704506-01A	Glass 250ml/8oz unpreserved	A	N/A	4.2	Y	Absent	-
L1704506-01X	Plastic 120ml HNO3 preserved Ext	A	<2	4.2	Y	Absent	PB-CI(180)
L1704506-01X9	Tumble Vessel	A	N/A	4.2	Y	Absent	-
L1704506-02A	Glass 500ml/16oz unpreserved	A	N/A	4.2	Y	Absent	-
L1704506-02X	Plastic 120ml HNO3 preserved Ext	A	<2	4.2	Y	Absent	AS-CI(180),PB-CI(180)
L1704506-02X9	Tumble Vessel	A	N/A	4.2	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1704506
Project Number:	171521.52	**Report Date:**	02/17/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1704506
Project Number:	171521.52	**Report Date:**	02/17/17

Data Qualifiers

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
Project Number: 171521.52
Lab Number: L1704506
Report Date: 02/17/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 2/9/17

L1704506 2/15/17 WM

CHAIN OF CUSTODY

PAGE DD 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: 2/8/17

ALPHA Job #: ~~L1704449~~

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~~ Wynn Everett
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 meatals

*TCLP PB
**TCLP PB & TCLP AS

ANALYSIS

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP 14 Metals	VOCs 8260	SVOCs 8270 with Pyridine	PCBs, TPH, pH, Ignit	Herbicides, Pesticides w/ Toxiphrons	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	*	**				Sample Specific Comments
~~04449-01~~	MBTA_WM-S1	2/8/17	09:30	SOIL	JAB	X	X	X	X	X	X	X						
04506-01	MBTA_WM-S2	2/8/17	09:30	SOIL	JAB	X	X	X	X	X	X	X	X					
02	HWY_WM-S1	2/8/17	09:30	SOIL	JAB	X	X	X	X	X	X	X	X	X				
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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Container Type		G	-	-	-	-	-	-	-	-	-	-	-					
Preservative		-	-	-	-	-	-	-	-	-	-	-	-					

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2-8-2017/1745	[signature]	2/8/17 1945

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:	L1704558
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:	02/20/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NH (2003), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1704558
Report Date: 02/20/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1704558-01	SHORELINE STOCKPILE-2A	SOIL	1 HORIZON WAY, EVERETT, MA	02/14/17 10:00	02/14/17
L1704558-02	SHORELINE STOCKPILE-2B	SOIL	1 HORIZON WAY, EVERETT, MA	02/14/17 10:10	02/14/17
L1704558-03	SHORELINE STOCKPILE-2C	SOIL	1 HORIZON WAY, EVERETT, MA	02/14/17 10:20	02/14/17
L1704558-04	SHORELINE STOCKPILE-2D	SOIL	1 HORIZON WAY, EVERETT, MA	02/14/17 10:30	02/14/17
L1704558-05	SHORELINE STOCKPILE-2E	SOIL	1 HORIZON WAY, EVERETT, MA	02/14/17 10:40	02/14/17

Project Name:	WYNN EVERETT	**Lab Number:**	L1704558
Project Number:	171521.52	**Report Date:**	02/20/17

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: L1704558
Report Date: 02/20/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

The continuing calibration standards, associated with L1704558-01 through -05, are included as an addendum to this report.

In reference to question G:

L1704558-01, -04 and -05: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1704558-01 through -05, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0020), as well as the average response factor for 1,4-dioxane.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1704558-01, -02, -03, -04 and -05: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample. One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question G:

L1704558-01, -02, -03, -04 and -05: The sample has elevated detection limits due to the dilution required by the sample matrix. One or more of the target analytes did not achieve the requested CAM reporting limits.

Project Name:	WYNN EVERETT	**Lab Number:**	L1704558
Project Number:	171521.52	**Report Date:**	02/20/17

Case Narrative (continued)

In reference to question H:

L1704558-01, -02, -03, -04 and -05: The surrogate recoveries are below the acceptance criteria for DCAA (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

The WG978048-2/-3 LCS/LCSD recoveries, associated with L1704558-01 through -05, are below the acceptance criteria for dinoseb (8%/9%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 02/20/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/16/17 17:12
Analyst: KD
Percent Solids: 73%

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	580	--	1
1,1-Dichloroethane	ND		ug/kg	86	--	1
Chloroform	ND		ug/kg	86	--	1
Carbon tetrachloride	ND		ug/kg	58	--	1
1,2-Dichloropropane	ND		ug/kg	200	--	1
Dibromochloromethane	ND		ug/kg	58	--	1
1,1,2-Trichloroethane	ND		ug/kg	86	--	1
Tetrachloroethene	ND		ug/kg	58	--	1
Chlorobenzene	ND		ug/kg	58	--	1
Trichlorofluoromethane	ND		ug/kg	230	--	1
1,2-Dichloroethane	ND		ug/kg	58	--	1
1,1,1-Trichloroethane	ND		ug/kg	58	--	1
Bromodichloromethane	ND		ug/kg	58	--	1
trans-1,3-Dichloropropene	ND		ug/kg	58	--	1
cis-1,3-Dichloropropene	ND		ug/kg	58	--	1
1,3-Dichloropropene, Total	ND		ug/kg	58	--	1
1,1-Dichloropropene	ND		ug/kg	230	--	1
Bromoform	ND		ug/kg	230	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	--	1
Benzene	ND		ug/kg	58	--	1
Toluene	ND		ug/kg	86	--	1
Ethylbenzene	ND		ug/kg	58	--	1
Chloromethane	ND		ug/kg	230	--	1
Bromomethane	ND		ug/kg	120	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	120	--	1
1,1-Dichloroethene	ND		ug/kg	58	--	1
trans-1,2-Dichloroethene	ND		ug/kg	86	--	1
Trichloroethene	ND		ug/kg	58	--	1
1,2-Dichlorobenzene	ND		ug/kg	230	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01 Date Collected: 02/14/17 10:00

Client ID: SHORELINE STOCKPILE-2A Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	230	--	1
1,4-Dichlorobenzene	ND		ug/kg	230	--	1
Methyl tert butyl ether	ND		ug/kg	120	--	1
p/m-Xylene	ND		ug/kg	120	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	58	--	1
1,2-Dichloroethene, Total	ND		ug/kg	58	--	1
Dibromomethane	ND		ug/kg	230	--	1
1,2,3-Trichloropropane	ND		ug/kg	230	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	580	--	1
Acetone	ND		ug/kg	2100	--	1
Carbon disulfide	910		ug/kg	230	--	1
Methyl ethyl ketone	ND		ug/kg	580	--	1
Methyl isobutyl ketone	ND		ug/kg	580	--	1
2-Hexanone	ND		ug/kg	580	--	1
Bromochloromethane	ND		ug/kg	230	--	1
Tetrahydrofuran	ND		ug/kg	230	--	1
2,2-Dichloropropane	ND		ug/kg	290	--	1
1,2-Dibromoethane	ND		ug/kg	230	--	1
1,3-Dichloropropane	ND		ug/kg	230	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	58	--	1
Bromobenzene	ND		ug/kg	290	--	1
n-Butylbenzene	ND		ug/kg	58	--	1
sec-Butylbenzene	ND		ug/kg	58	--	1
tert-Butylbenzene	ND		ug/kg	230	--	1
o-Chlorotoluene	ND		ug/kg	230	--	1
p-Chlorotoluene	ND		ug/kg	230	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	230	--	1
Isopropylbenzene	ND		ug/kg	58	--	1
p-Isopropyltoluene	1200		ug/kg	58	--	1
Naphthalene	330		ug/kg	230	--	1
n-Propylbenzene	ND		ug/kg	58	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	230	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	230	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	230	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01 Date Collected: 02/14/17 10:00

Client ID: SHORELINE STOCKPILE-2A Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	290	--	1
Diisopropyl Ether	ND		ug/kg	230	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	230	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	230	--	1
1,4-Dioxane	ND		ug/kg	5800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	97		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/16/17 12:56
Analyst: KD
Percent Solids: 67%

Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	--	1
1,1-Dichloroethane	ND		ug/kg	0.90	--	1
Chloroform	ND		ug/kg	0.90	--	1
Carbon tetrachloride	ND		ug/kg	0.60	--	1
1,2-Dichloropropane	ND		ug/kg	2.1	--	1
Dibromochloromethane	ND		ug/kg	0.60	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.90	--	1
Tetrachloroethene	ND		ug/kg	0.60	--	1
Chlorobenzene	ND		ug/kg	0.60	--	1
Trichlorofluoromethane	ND		ug/kg	2.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.60	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	--	1
Bromodichloromethane	ND		ug/kg	0.60	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.60	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	--	1
1,1-Dichloropropene	ND		ug/kg	2.4	--	1
Bromoform	ND		ug/kg	2.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	--	1
Benzene	ND		ug/kg	0.60	--	1
Toluene	ND		ug/kg	0.90	--	1
Ethylbenzene	ND		ug/kg	0.60	--	1
Chloromethane	ND		ug/kg	2.4	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.60	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.90	--	1
Trichloroethene	ND		ug/kg	0.60	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02 Date Collected: 02/14/17 10:10

Client ID: SHORELINE STOCKPILE-2B Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.2	--	1
p/m-Xylene	1.5		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	1.5		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.60	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.60	--	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	6.0	--	1
Acetone	ND		ug/kg	22	--	1
Carbon disulfide	ND		ug/kg	2.4	--	1
Methyl ethyl ketone	ND		ug/kg	6.0	--	1
Methyl isobutyl ketone	ND		ug/kg	6.0	--	1
2-Hexanone	ND		ug/kg	6.0	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	2.4	--	1
2,2-Dichloropropane	ND		ug/kg	3.0	--	1
1,2-Dibromoethane	ND		ug/kg	2.4	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	--	1
Bromobenzene	ND		ug/kg	3.0	--	1
n-Butylbenzene	ND		ug/kg	0.60	--	1
sec-Butylbenzene	ND		ug/kg	0.60	--	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	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	2.4	--	1
Isopropylbenzene	ND		ug/kg	0.60	--	1
p-Isopropyltoluene	ND		ug/kg	0.60	--	1
Naphthalene	ND		ug/kg	2.4	--	1
n-Propylbenzene	ND		ug/kg	0.60	--	1
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

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02 Date Collected: 02/14/17 10:10

Client ID: SHORELINE STOCKPILE-2B Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.0	--	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	24	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/16/17 13:22
Analyst: KD
Percent Solids: 70%

Date Collected: 02/14/17 10:20
Date Received: 02/14/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	2.5	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.72	--	1
Chlorobenzene	ND		ug/kg	0.72	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	--	1
Bromodichloromethane	ND		ug/kg	0.72	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.72	--	1
1,1-Dichloropropene	ND		ug/kg	2.9	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Benzene	ND		ug/kg	0.72	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03 Date Collected: 02/14/17 10:20

Client ID: SHORELINE STOCKPILE-2C Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
Xylenes, Total	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	2.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	ND		ug/kg	26	--	1
Carbon disulfide	ND		ug/kg	2.9	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	2.9	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	3.6	--	1
1,2-Dibromoethane	ND		ug/kg	2.9	--	1
1,3-Dichloropropane	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Bromobenzene	ND		ug/kg	3.6	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	2.9	--	1
o-Chlorotoluene	ND		ug/kg	2.9	--	1
p-Chlorotoluene	ND		ug/kg	2.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	3.5		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03 Date Collected: 02/14/17 10:20

Client ID: SHORELINE STOCKPILE-2C Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.6	--	1
Diisopropyl Ether	ND		ug/kg	2.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.9	--	1
1,4-Dioxane	ND		ug/kg	29	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/16/17 17:38
Analyst: KD
Percent Solids: 66%

Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	540	--	1
1,1-Dichloroethane	ND		ug/kg	80	--	1
Chloroform	ND		ug/kg	80	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	190	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	80	--	1
Tetrachloroethene	ND		ug/kg	54	--	1
Chlorobenzene	ND		ug/kg	54	--	1
Trichlorofluoromethane	ND		ug/kg	210	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	54	--	1
Bromodichloromethane	ND		ug/kg	54	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	54	--	1
1,3-Dichloropropene, Total	ND		ug/kg	54	--	1
1,1-Dichloropropene	ND		ug/kg	210	--	1
Bromoform	ND		ug/kg	210	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	54	--	1
Benzene	ND		ug/kg	54	--	1
Toluene	ND		ug/kg	80	--	1
Ethylbenzene	ND		ug/kg	54	--	1
Chloromethane	ND		ug/kg	210	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	110	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	80	--	1
Trichloroethene	ND		ug/kg	54	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04 Date Collected: 02/14/17 10:30

Client ID: SHORELINE STOCKPILE-2D Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	110	--	1
Xylenes, Total	ND		ug/kg	110	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	210	--	1
1,2,3-Trichloropropane	ND		ug/kg	210	--	1
Styrene	ND		ug/kg	110	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	1900	--	1
Carbon disulfide	860		ug/kg	210	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	210	--	1
Tetrahydrofuran	ND		ug/kg	210	--	1
2,2-Dichloropropane	ND		ug/kg	270	--	1
1,2-Dibromoethane	ND		ug/kg	210	--	1
1,3-Dichloropropane	ND		ug/kg	210	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	54	--	1
Bromobenzene	ND		ug/kg	270	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	210	--	1
o-Chlorotoluene	ND		ug/kg	210	--	1
p-Chlorotoluene	ND		ug/kg	210	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	ND		ug/kg	210	--	1
n-Propylbenzene	ND		ug/kg	54	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	210	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	210	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	210	--	1

Project Name: WYNN EVERETT
Lab Number: L1704558
Project Number: 171521.52
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	270	--	1
Diisopropyl Ether	ND		ug/kg	210	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	--	1
1,4-Dioxane	ND		ug/kg	5400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 02/16/17 18:03
Analyst: KD
Percent Solids: 65%

Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	700	--	1
1,1-Dichloroethane	ND		ug/kg	100	--	1
Chloroform	ND		ug/kg	100	--	1
Carbon tetrachloride	ND		ug/kg	70	--	1
1,2-Dichloropropane	ND		ug/kg	240	--	1
Dibromochloromethane	ND		ug/kg	70	--	1
1,1,2-Trichloroethane	ND		ug/kg	100	--	1
Tetrachloroethene	ND		ug/kg	70	--	1
Chlorobenzene	ND		ug/kg	70	--	1
Trichlorofluoromethane	ND		ug/kg	280	--	1
1,2-Dichloroethane	ND		ug/kg	70	--	1
1,1,1-Trichloroethane	ND		ug/kg	70	--	1
Bromodichloromethane	ND		ug/kg	70	--	1
trans-1,3-Dichloropropene	ND		ug/kg	70	--	1
cis-1,3-Dichloropropene	ND		ug/kg	70	--	1
1,3-Dichloropropene, Total	ND		ug/kg	70	--	1
1,1-Dichloropropene	ND		ug/kg	280	--	1
Bromoform	ND		ug/kg	280	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	70	--	1
Benzene	ND		ug/kg	70	--	1
Toluene	ND		ug/kg	100	--	1
Ethylbenzene	ND		ug/kg	70	--	1
Chloromethane	ND		ug/kg	280	--	1
Bromomethane	ND		ug/kg	140	--	1
Vinyl chloride	ND		ug/kg	140	--	1
Chloroethane	ND		ug/kg	140	--	1
1,1-Dichloroethene	ND		ug/kg	70	--	1
trans-1,2-Dichloroethene	ND		ug/kg	100	--	1
Trichloroethene	ND		ug/kg	70	--	1
1,2-Dichlorobenzene	ND		ug/kg	280	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05 Date Collected: 02/14/17 10:40

Client ID: SHORELINE STOCKPILE-2E Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	280	--	1
1,4-Dichlorobenzene	ND		ug/kg	280	--	1
Methyl tert butyl ether	ND		ug/kg	140	--	1
p/m-Xylene	ND		ug/kg	140	--	1
o-Xylene	ND		ug/kg	140	--	1
Xylenes, Total	ND		ug/kg	140	--	1
cis-1,2-Dichloroethene	ND		ug/kg	70	--	1
1,2-Dichloroethene, Total	ND		ug/kg	70	--	1
Dibromomethane	ND		ug/kg	280	--	1
1,2,3-Trichloropropane	ND		ug/kg	280	--	1
Styrene	ND		ug/kg	140	--	1
Dichlorodifluoromethane	ND		ug/kg	700	--	1
Acetone	ND		ug/kg	2500	--	1
Carbon disulfide	730		ug/kg	280	--	1
Methyl ethyl ketone	ND		ug/kg	700	--	1
Methyl isobutyl ketone	ND		ug/kg	700	--	1
2-Hexanone	ND		ug/kg	700	--	1
Bromochloromethane	ND		ug/kg	280	--	1
Tetrahydrofuran	ND		ug/kg	280	--	1
2,2-Dichloropropane	ND		ug/kg	350	--	1
1,2-Dibromoethane	ND		ug/kg	280	--	1
1,3-Dichloropropane	ND		ug/kg	280	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	70	--	1
Bromobenzene	ND		ug/kg	350	--	1
n-Butylbenzene	ND		ug/kg	70	--	1
sec-Butylbenzene	ND		ug/kg	70	--	1
tert-Butylbenzene	ND		ug/kg	280	--	1
o-Chlorotoluene	ND		ug/kg	280	--	1
p-Chlorotoluene	ND		ug/kg	280	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	--	1
Hexachlorobutadiene	ND		ug/kg	280	--	1
Isopropylbenzene	ND		ug/kg	70	--	1
p-Isopropyltoluene	ND		ug/kg	70	--	1
Naphthalene	ND		ug/kg	280	--	1
n-Propylbenzene	ND		ug/kg	70	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	280	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	280	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	280	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05 Date Collected: 02/14/17 10:40

Client ID: SHORELINE STOCKPILE-2E Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	350	--	1
Diisopropyl Ether	ND		ug/kg	280	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	280	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	280	--	1
1,4-Dioxane	ND		ug/kg	7000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	97		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG978504-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG978504-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG978504-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG978504-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	95		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04-05 Batch: WG978773-5					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04-05 Batch: WG978773-5					
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04-05 Batch: WG978773-5					
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Diethyl ether	ND		ug/kg	250	--
Diisopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	5000	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Halothane	ND		ug/kg	2000	--
Ethyl Acetate	ND		ug/kg	1000	--
Freon-113	ND		ug/kg	1000	--
Vinyl acetate	ND		ug/kg	500	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 02/16/17 09:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,04-05 Batch: WG978773-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG978504-3 WG978504-4								
Methylene chloride	107		119		70-130	11		20
1,1-Dichloroethane	104		103		70-130	1		20
Chloroform	102		103		70-130	1		20
Carbon tetrachloride	96		93		70-130	3		20
1,2-Dichloropropane	105		105		70-130	0		20
Dibromochloromethane	92		94		70-130	2		20
1,1,2-Trichloroethane	101		102		70-130	1		20
Tetrachloroethene	88		82		70-130	7		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	95		91		70-130	4		20
1,2-Dichloroethane	108		110		70-130	2		20
1,1,1-Trichloroethane	100		97		70-130	3		20
Bromodichloromethane	101		102		70-130	1		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	101		102		70-130	1		20
1,1-Dichloropropene	102		97		70-130	5		20
Bromoform	89		92		70-130	3		20
1,1,2,2-Tetrachloroethane	102		104		70-130	2		20
Benzene	101		100		70-130	1		20
Toluene	95		93		70-130	2		20
Ethylbenzene	97		95		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG978504-3 WG978504-4								
Chloromethane	104		100		70-130	4		20
Bromomethane	91		88		70-130	3		20
Vinyl chloride	93		88		70-130	6		20
Chloroethane	103		99		70-130	4		20
1,1-Dichloroethene	95		90		70-130	5		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Trichloroethene	97		97		70-130	0		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	95		94		70-130	1		20
1,4-Dichlorobenzene	95		94		70-130	1		20
Methyl tert butyl ether	102		105		70-130	3		20
p/m-Xylene	94		93		70-130	1		20
o-Xylene	95		94		70-130	1		20
cis-1,2-Dichloroethene	99		98		70-130	1		20
Dibromomethane	103		102		70-130	1		20
1,4-Dichlorobutane	107		110		70-130	3		20
1,2,3-Trichloropropane	104		107		70-130	3		20
Styrene	96		95		70-130	1		20
Dichlorodifluoromethane	83		77		70-130	8		20
Acetone	99		104		70-130	5		20
Carbon disulfide	93		89		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG978504-3 WG978504-4								
Methyl ethyl ketone	98		106		70-130	8		20
Methyl isobutyl ketone	92		97		70-130	5		20
2-Hexanone	102		104		70-130	2		20
Ethyl methacrylate	87		92		70-130	6		20
Acrylonitrile	104		114		70-130	9		20
Bromochloromethane	95		96		70-130	1		20
Tetrahydrofuran	115		120		70-130	4		20
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	101		103		70-130	2		20
1,1,1,2-Tetrachloroethane	93		92		70-130	1		20
Bromobenzene	93		92		70-130	1		20
n-Butylbenzene	106		101		70-130	5		20
sec-Butylbenzene	100		94		70-130	6		20
tert-Butylbenzene	97		93		70-130	4		20
o-Chlorotoluene	103		100		70-130	3		20
p-Chlorotoluene	104		102		70-130	2		20
1,2-Dibromo-3-chloropropane	83		89		70-130	7		20
Hexachlorobutadiene	83		79		70-130	5		20
Isopropylbenzene	98		94		70-130	4		20
p-Isopropyltoluene	98		94		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG978504-3 WG978504-4								
Naphthalene	96		98		70-130	2		20
n-Propylbenzene	103		98		70-130	5		20
1,2,3-Trichlorobenzene	91		92		70-130	1		20
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	100		97		70-130	3		20
1,2,4-Trimethylbenzene	100		97		70-130	3		20
trans-1,4-Dichloro-2-butene	109		113		70-130	4		20
Diethyl ether	101		104		70-130	3		20
Diisopropyl Ether	112		114		70-130	2		20
Ethyl-Tert-Butyl-Ether	105		107		70-130	2		20
Tertiary-Amyl Methyl Ether	101		105		70-130	4		20
1,4-Dioxane	90		97		70-130	7		20
2-Chloroethylvinyl ether	88		86		70-130	2		20
Halothane	94		91		70-130	3		20
Ethyl Acetate	111		117		70-130	5		20
Freon-113	95		88		70-130	8		20
Vinyl acetate	113		118		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG978504-3 WG978504-4

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		106		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	108		108		70-130
Dibromofluoromethane	98		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-05 Batch: WG978773-3 WG978773-4								
Methylene chloride	107		119		70-130	11		20
1,1-Dichloroethane	104		103		70-130	1		20
Chloroform	102		103		70-130	1		20
Carbon tetrachloride	96		93		70-130	3		20
1,2-Dichloropropane	105		105		70-130	0		20
Dibromochloromethane	92		94		70-130	2		20
1,1,2-Trichloroethane	101		102		70-130	1		20
Tetrachloroethene	88		82		70-130	7		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	95		91		70-130	4		20
1,2-Dichloroethane	108		110		70-130	2		20
1,1,1-Trichloroethane	100		97		70-130	3		20
Bromodichloromethane	101		102		70-130	1		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	101		102		70-130	1		20
1,1-Dichloropropene	102		97		70-130	5		20
Bromoform	89		92		70-130	3		20
1,1,2,2-Tetrachloroethane	102		104		70-130	2		20
Benzene	101		100		70-130	1		20
Toluene	95		93		70-130	2		20
Ethylbenzene	97		95		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-05 Batch: WG978773-3 WG978773-4								
Chloromethane	104		100		70-130	4		20
Bromomethane	91		88		70-130	3		20
Vinyl chloride	93		88		70-130	6		20
Chloroethane	103		99		70-130	4		20
1,1-Dichloroethene	95		90		70-130	5		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Trichloroethene	97		97		70-130	0		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	95		94		70-130	1		20
1,4-Dichlorobenzene	95		94		70-130	1		20
Methyl tert butyl ether	102		105		70-130	3		20
p/m-Xylene	94		93		70-130	1		20
o-Xylene	95		94		70-130	1		20
cis-1,2-Dichloroethene	99		98		70-130	1		20
Dibromomethane	103		102		70-130	1		20
1,2,3-Trichloropropane	104		107		70-130	3		20
Styrene	96		95		70-130	1		20
Dichlorodifluoromethane	83		77		70-130	8		20
Acetone	99		104		70-130	5		20
Carbon disulfide	93		89		70-130	4		20
Methyl ethyl ketone	98		106		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-05 Batch: WG978773-3 WG978773-4								
Methyl isobutyl ketone	92		97		70-130	5		20
2-Hexanone	102		104		70-130	2		20
Bromochloromethane	95		96		70-130	1		20
Tetrahydrofuran	115		120		70-130	4		20
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	101		103		70-130	2		20
1,1,1,2-Tetrachloroethane	93		92		70-130	1		20
Bromobenzene	93		92		70-130	1		20
n-Butylbenzene	106		101		70-130	5		20
sec-Butylbenzene	100		94		70-130	6		20
tert-Butylbenzene	97		93		70-130	4		20
o-Chlorotoluene	103		100		70-130	3		20
p-Chlorotoluene	104		102		70-130	2		20
1,2-Dibromo-3-chloropropane	83		89		70-130	7		20
Hexachlorobutadiene	83		79		70-130	5		20
Isopropylbenzene	98		94		70-130	4		20
p-Isopropyltoluene	98		94		70-130	4		20
Naphthalene	96		98		70-130	2		20
n-Propylbenzene	103		98		70-130	5		20
1,2,3-Trichlorobenzene	91		92		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,04-05 Batch: WG978773-3 WG978773-4								
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	100		97		70-130	3		20
1,2,4-Trimethylbenzene	100		97		70-130	3		20
Diethyl ether	101		104		70-130	3		20
Diisopropyl Ether	112		114		70-130	2		20
Ethyl-Tert-Butyl-Ether	105		107		70-130	2		20
Tertiary-Amyl Methyl Ether	101		105		70-130	4		20
1,4-Dioxane	90		97		70-130	7		20
2-Chloroethylvinyl ether	88		86		70-130	2		20
Halothane	94		91		70-130	3		20
Ethyl Acetate	111		117		70-130	5		20
Freon-113	95		88		70-130	8		20
Vinyl acetate	113		118		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	108		108		70-130
Dibromofluoromethane	98		100		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/17/17 09:14
Analyst: PS
Percent Solids: 73%

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:22

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	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	330		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	680		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	2600		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	140		ug/kg	130	--	1
Benzo(a)pyrene	ND		ug/kg	180	--	1
Benzo(b)fluoranthene	140		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01 Date Collected: 02/14/17 10:00

Client ID: SHORELINE STOCKPILE-2A Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	130		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	180	--	1
Fluorene	ND		ug/kg	220	--	1
Phenanthrene	340		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	--	1
Pyrene	280		ug/kg	130	--	1
Aniline	ND		ug/kg	270	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	270	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	480	--	1
4-Nitrophenol	ND		ug/kg	310	--	1
2,4-Dinitrophenol	ND		ug/kg	1100	--	1
Pentachlorophenol	ND		ug/kg	450	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**23**	Q	30-130
Phenol-d6	38		30-130
Nitrobenzene-d5	35		30-130
2-Fluorobiphenyl	38		30-130
2,4,6-Tribromophenol	39		30-130
4-Terphenyl-d14	33		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/17/17 09:40
Analyst: PS
Percent Solids: 67%

Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	200	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
Hexachlorobenzene	ND		ug/kg	150	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	220	--	1
2-Chloronaphthalene	ND		ug/kg	240	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	240	--	1
2,4-Dinitrotoluene	ND		ug/kg	240	--	1
2,6-Dinitrotoluene	ND		ug/kg	240	--	1
Azobenzene	ND		ug/kg	240	--	1
Fluoranthene	ND		ug/kg	150	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	240	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	290	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	260	--	1
Hexachlorobutadiene	ND		ug/kg	240	--	1
Hexachloroethane	ND		ug/kg	200	--	1
Isophorone	ND		ug/kg	220	--	1
Naphthalene	ND		ug/kg	240	--	1
Nitrobenzene	ND		ug/kg	220	--	1
Bis(2-ethylhexyl)phthalate	620		ug/kg	240	--	1
Butyl benzyl phthalate	ND		ug/kg	240	--	1
Di-n-butylphthalate	ND		ug/kg	240	--	1
Di-n-octylphthalate	ND		ug/kg	240	--	1
Diethyl phthalate	ND		ug/kg	240	--	1
Dimethyl phthalate	ND		ug/kg	240	--	1
Benzo(a)anthracene	ND		ug/kg	150	--	1
Benzo(a)pyrene	ND		ug/kg	200	--	1
Benzo(b)fluoranthene	ND		ug/kg	150	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02 Date Collected: 02/14/17 10:10

Client ID: SHORELINE STOCKPILE-2B Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	150	--	1
Chrysene	ND		ug/kg	150	--	1
Acenaphthylene	ND		ug/kg	200	--	1
Anthracene	ND		ug/kg	150	--	1
Benzo(ghi)perylene	ND		ug/kg	200	--	1
Fluorene	ND		ug/kg	240	--	1
Phenanthrene	ND		ug/kg	150	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	200	--	1
Pyrene	ND		ug/kg	150	--	1
Aniline	ND		ug/kg	290	--	1
4-Chloroaniline	ND		ug/kg	240	--	1
Dibenzofuran	ND		ug/kg	240	--	1
2-Methylnaphthalene	ND		ug/kg	290	--	1
Acetophenone	ND		ug/kg	240	--	1
2,4,6-Trichlorophenol	ND		ug/kg	150	--	1
2-Chlorophenol	ND		ug/kg	240	--	1
2,4-Dichlorophenol	ND		ug/kg	220	--	1
2,4-Dimethylphenol	ND		ug/kg	240	--	1
2-Nitrophenol	ND		ug/kg	530	--	1
4-Nitrophenol	ND		ug/kg	340	--	1
2,4-Dinitrophenol	ND		ug/kg	1200	--	1
Pentachlorophenol	ND		ug/kg	490	--	1
Phenol	ND		ug/kg	240	--	1
2-Methylphenol	ND		ug/kg	240	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	350	--	1
2,4,5-Trichlorophenol	ND		ug/kg	240	--	1
Pyridine	ND		ug/kg	260	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**20**	Q	30-130
Phenol-d6	35		30-130
Nitrobenzene-d5	32		30-130
2-Fluorobiphenyl	42		30-130
2,4,6-Tribromophenol	30		30-130
4-Terphenyl-d14	44		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/17/17 10:07
Analyst: PS
Percent Solids: 70%

Date Collected: 02/14/17 10:20
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:22

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	210	--	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	190		ug/kg	140	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	--	1
Hexachlorobutadiene	ND		ug/kg	230	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	210	--	1
Naphthalene	ND		ug/kg	230	--	1
Nitrobenzene	ND		ug/kg	210	--	1
Bis(2-ethylhexyl)phthalate	1000		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
Benzo(a)pyrene	ND		ug/kg	180	--	1
Benzo(b)fluoranthene	ND		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03 Date Collected: 02/14/17 10:20

Client ID: SHORELINE STOCKPILE-2C Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
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	190		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	170		ug/kg	140	--	1
Aniline	ND		ug/kg	280	--	1
4-Chloroaniline	ND		ug/kg	230	--	1
Dibenzofuran	ND		ug/kg	230	--	1
2-Methylnaphthalene	ND		ug/kg	280	--	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	210	--	1
2,4-Dimethylphenol	ND		ug/kg	230	--	1
2-Nitrophenol	ND		ug/kg	500	--	1
4-Nitrophenol	ND		ug/kg	320	--	1
2,4-Dinitrophenol	ND		ug/kg	1100	--	1
Pentachlorophenol	ND		ug/kg	460	--	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	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		30-130
Phenol-d6	68		30-130
Nitrobenzene-d5	70		30-130
2-Fluorobiphenyl	59		30-130
2,4,6-Tribromophenol	34		30-130
4-Terphenyl-d14	57		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/17/17 10:33
Analyst: PS
Percent Solids: 66%

Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	200	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
Hexachlorobenzene	ND		ug/kg	150	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	220	--	1
2-Chloronaphthalene	ND		ug/kg	240	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	240	--	1
2,4-Dinitrotoluene	ND		ug/kg	240	--	1
2,6-Dinitrotoluene	ND		ug/kg	240	--	1
Azobenzene	ND		ug/kg	240	--	1
Fluoranthene	300		ug/kg	150	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	240	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	290	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	260	--	1
Hexachlorobutadiene	ND		ug/kg	240	--	1
Hexachloroethane	ND		ug/kg	200	--	1
Isophorone	ND		ug/kg	220	--	1
Naphthalene	ND		ug/kg	240	--	1
Nitrobenzene	ND		ug/kg	220	--	1
Bis(2-ethylhexyl)phthalate	810		ug/kg	240	--	1
Butyl benzyl phthalate	ND		ug/kg	240	--	1
Di-n-butylphthalate	ND		ug/kg	240	--	1
Di-n-octylphthalate	ND		ug/kg	240	--	1
Diethyl phthalate	ND		ug/kg	240	--	1
Dimethyl phthalate	ND		ug/kg	240	--	1
Benzo(a)anthracene	160		ug/kg	150	--	1
Benzo(a)pyrene	ND		ug/kg	200	--	1
Benzo(b)fluoranthene	260		ug/kg	150	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04 Date Collected: 02/14/17 10:30

Client ID: SHORELINE STOCKPILE-2D Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	150	--	1
Chrysene	190		ug/kg	150	--	1
Acenaphthylene	ND		ug/kg	200	--	1
Anthracene	ND		ug/kg	150	--	1
Benzo(ghi)perylene	ND		ug/kg	200	--	1
Fluorene	ND		ug/kg	240	--	1
Phenanthrene	200		ug/kg	150	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	200	--	1
Pyrene	290		ug/kg	150	--	1
Aniline	ND		ug/kg	290	--	1
4-Chloroaniline	ND		ug/kg	240	--	1
Dibenzofuran	ND		ug/kg	240	--	1
2-Methylnaphthalene	ND		ug/kg	290	--	1
Acetophenone	ND		ug/kg	240	--	1
2,4,6-Trichlorophenol	ND		ug/kg	150	--	1
2-Chlorophenol	ND		ug/kg	240	--	1
2,4-Dichlorophenol	ND		ug/kg	220	--	1
2,4-Dimethylphenol	ND		ug/kg	240	--	1
2-Nitrophenol	ND		ug/kg	530	--	1
4-Nitrophenol	ND		ug/kg	340	--	1
2,4-Dinitrophenol	ND		ug/kg	1200	--	1
Pentachlorophenol	ND		ug/kg	490	--	1
Phenol	ND		ug/kg	240	--	1
2-Methylphenol	ND		ug/kg	240	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	350	--	1
2,4,5-Trichlorophenol	ND		ug/kg	240	--	1
Pyridine	ND		ug/kg	260	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		30-130
Phenol-d6	70		30-130
Nitrobenzene-d5	84		30-130
2-Fluorobiphenyl	54		30-130
2,4,6-Tribromophenol	36		30-130
4-Terphenyl-d14	42		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 02/20/17 14:55
Analyst: MW
Percent Solids: 65%

Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/20/17 08:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	200	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	--	1
Hexachlorobenzene	ND		ug/kg	150	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	--	1
2-Chloronaphthalene	ND		ug/kg	260	--	1
1,2-Dichlorobenzene	ND		ug/kg	260	--	1
1,3-Dichlorobenzene	ND		ug/kg	260	--	1
1,4-Dichlorobenzene	ND		ug/kg	260	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	--	1
2,4-Dinitrotoluene	ND		ug/kg	260	--	1
2,6-Dinitrotoluene	ND		ug/kg	260	--	1
Azobenzene	ND		ug/kg	260	--	1
Fluoranthene	160		ug/kg	150	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	--	1
Hexachlorobutadiene	ND		ug/kg	260	--	1
Hexachloroethane	ND		ug/kg	200	--	1
Isophorone	ND		ug/kg	230	--	1
Naphthalene	ND		ug/kg	260	--	1
Nitrobenzene	ND		ug/kg	230	--	1
Bis(2-ethylhexyl)phthalate	720		ug/kg	260	--	1
Butyl benzyl phthalate	ND		ug/kg	260	--	1
Di-n-butylphthalate	ND		ug/kg	260	--	1
Di-n-octylphthalate	ND		ug/kg	260	--	1
Diethyl phthalate	ND		ug/kg	260	--	1
Dimethyl phthalate	ND		ug/kg	260	--	1
Benzo(a)anthracene	ND		ug/kg	150	--	1
Benzo(a)pyrene	ND		ug/kg	200	--	1
Benzo(b)fluoranthene	ND		ug/kg	150	--	1

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05 Date Collected: 02/14/17 10:40

Client ID: SHORELINE STOCKPILE-2E Date Received: 02/14/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	150	--	1
Chrysene	ND		ug/kg	150	--	1
Acenaphthylene	ND		ug/kg	200	--	1
Anthracene	ND		ug/kg	150	--	1
Benzo(ghi)perylene	ND		ug/kg	200	--	1
Fluorene	ND		ug/kg	260	--	1
Phenanthrene	ND		ug/kg	150	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	200	--	1
Pyrene	160		ug/kg	150	--	1
Aniline	ND		ug/kg	310	--	1
4-Chloroaniline	ND		ug/kg	260	--	1
Dibenzofuran	ND		ug/kg	260	--	1
2-Methylnaphthalene	ND		ug/kg	310	--	1
Acetophenone	ND		ug/kg	260	--	1
2,4,6-Trichlorophenol	ND		ug/kg	150	--	1
2-Chlorophenol	ND		ug/kg	260	--	1
2,4-Dichlorophenol	ND		ug/kg	230	--	1
2,4-Dimethylphenol	ND		ug/kg	260	--	1
2-Nitrophenol	ND		ug/kg	550	--	1
4-Nitrophenol	ND		ug/kg	360	--	1
2,4-Dinitrophenol	ND		ug/kg	1200	--	1
Pentachlorophenol	ND		ug/kg	510	--	1
Phenol	ND		ug/kg	260	--	1
2-Methylphenol	ND		ug/kg	260	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	370	--	1
2,4,5-Trichlorophenol	ND		ug/kg	260	--	1
Pyridine	ND		ug/kg	280	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		30-130
Phenol-d6	42		30-130
Nitrobenzene-d5	39		30-130
2-Fluorobiphenyl	41		30-130
2,4,6-Tribromophenol	38		30-130
4-Terphenyl-d14	49		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/17/17 07:55
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:22

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG977964-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/17/17 07:55
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:22

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG977964-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/17/17 07:55
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:22

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG977964-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		30-130
Phenol-d6	87		30-130
Nitrobenzene-d5	83		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	61		30-130
4-Terphenyl-d14	84		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/20/17 13:11
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/20/17 08:49

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 05 Batch: WG979254-1					
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: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/20/17 13:11
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/20/17 08:49

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 05 Batch: WG979254-1					
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	780	--
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: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 02/20/17 13:11
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 02/20/17 08:49

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 05 Batch: WG979254-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		30-130
Phenol-d6	88		30-130
Nitrobenzene-d5	91		30-130
2-Fluorobiphenyl	74		30-130
2,4,6-Tribromophenol	33		30-130
4-Terphenyl-d14	70		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG977964-2 WG977964-3								
Acenaphthene	90		97		40-140	7		30
1,2,4-Trichlorobenzene	88		92		40-140	4		30
Hexachlorobenzene	84		90		40-140	7		30
Bis(2-chloroethyl)ether	96		100		40-140	4		30
2-Chloronaphthalene	88		93		40-140	6		30
1,2-Dichlorobenzene	85		91		40-140	7		30
1,3-Dichlorobenzene	81		87		40-140	7		30
1,4-Dichlorobenzene	83		86		40-140	4		30
3,3'-Dichlorobenzidine	75		77		40-140	3		30
2,4-Dinitrotoluene	93		102		40-140	9		30
2,6-Dinitrotoluene	94		98		40-140	4		30
Azobenzene	98		104		40-140	6		30
Fluoranthene	92		99		40-140	7		30
4-Bromophenyl phenyl ether	88		94		40-140	7		30
Bis(2-chloroisopropyl)ether	102		103		40-140	1		30
Bis(2-chloroethoxy)methane	102		106		40-140	4		30
Hexachlorobutadiene	75		81		40-140	8		30
Hexachloroethane	86		93		40-140	8		30
Isophorone	101		105		40-140	4		30
Naphthalene	82		89		40-140	8		30
Nitrobenzene	105		111		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG977964-2 WG977964-3								
Bis(2-ethylhexyl)phthalate	118		126		40-140	7		30
Butyl benzyl phthalate	106		117		40-140	10		30
Di-n-butylphthalate	101		109		40-140	8		30
Di-n-octylphthalate	109		119		40-140	9		30
Diethyl phthalate	95		98		40-140	3		30
Dimethyl phthalate	96		100		40-140	4		30
Benzo(a)anthracene	92		98		40-140	6		30
Benzo(a)pyrene	97		106		40-140	9		30
Benzo(b)fluoranthene	95		101		40-140	6		30
Benzo(k)fluoranthene	96		105		40-140	9		30
Chrysene	90		96		40-140	6		30
Acenaphthylene	96		100		40-140	4		30
Anthracene	93		98		40-140	5		30
Benzo(ghi)perylene	97		102		40-140	5		30
Fluorene	92		98		40-140	6		30
Phenanthrene	91		96		40-140	5		30
Dibenzo(a,h)anthracene	98		102		40-140	4		30
Indeno(1,2,3-cd)pyrene	99		104		40-140	5		30
Pyrene	93		98		40-140	5		30
Aniline	64		63		40-140	2		30
4-Chloroaniline	63		63		40-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG977964-2 WG977964-3								
Dibenzofuran	89		94		40-140	5		30
2-Methylnaphthalene	87		94		40-140	8		30
Acetophenone	98		103		40-140	5		30
2,4,6-Trichlorophenol	96		110		30-130	14		30
2-Chlorophenol	98		106		30-130	8		30
2,4-Dichlorophenol	105		111		30-130	6		30
2,4-Dimethylphenol	111		116		30-130	4		30
2-Nitrophenol	105		114		30-130	8		30
4-Nitrophenol	110		120		30-130	9		30
2,4-Dinitrophenol	73		84		30-130	14		30
Pentachlorophenol	80		84		30-130	5		30
Phenol	100		105		30-130	5		30
2-Methylphenol	106		110		30-130	4		30
3-Methylphenol/4-Methylphenol	108		112		30-130	4		30
2,4,5-Trichlorophenol	105		105		30-130	0		30
Pyridine	70		77		30-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG977964-2 WG977964-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	95		102		30-130
Phenol-d6	103		107		30-130
Nitrobenzene-d5	100		106		30-130
2-Fluorobiphenyl	85		89		30-130
2,4,6-Tribromophenol	77		83		30-130
4-Terphenyl-d14	87		93		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG979254-2 WG979254-3								
Acenaphthene	97		86		40-140	12		30
1,2,4-Trichlorobenzene	95		85		40-140	11		30
Hexachlorobenzene	98		82		40-140	18		30
Bis(2-chloroethyl)ether	98		89		40-140	10		30
2-Chloronaphthalene	97		86		40-140	12		30
1,2-Dichlorobenzene	98		88		40-140	11		30
1,3-Dichlorobenzene	97		84		40-140	14		30
1,4-Dichlorobenzene	96		84		40-140	13		30
3,3'-Dichlorobenzidine	78		64		40-140	20		30
2,4-Dinitrotoluene	108		94		40-140	14		30
2,6-Dinitrotoluene	102		90		40-140	13		30
Azobenzene	120		97		40-140	21		30
Fluoranthene	97		88		40-140	10		30
4-Bromophenyl phenyl ether	98		82		40-140	18		30
Bis(2-chloroisopropyl)ether	114		101		40-140	12		30
Bis(2-chloroethoxy)methane	106		94		40-140	12		30
Hexachlorobutadiene	86		78		40-140	10		30
Hexachloroethane	103		95		40-140	8		30
Isophorone	109		96		40-140	13		30
Naphthalene	95		85		40-140	11		30
Nitrobenzene	119		105		40-140	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG979254-2 WG979254-3								
Bis(2-ethylhexyl)phthalate	118		107		40-140	10		30
Butyl benzyl phthalate	106		96		40-140	10		30
Di-n-butylphthalate	105		97		40-140	8		30
Di-n-octylphthalate	109		99		40-140	10		30
Diethyl phthalate	104		90		40-140	14		30
Dimethyl phthalate	100		89		40-140	12		30
Benzo(a)anthracene	98		88		40-140	11		30
Benzo(a)pyrene	94		87		40-140	8		30
Benzo(b)fluoranthene	95		86		40-140	10		30
Benzo(k)fluoranthene	98		90		40-140	9		30
Chrysene	101		89		40-140	13		30
Acenaphthylene	105		90		40-140	15		30
Anthracene	100		90		40-140	11		30
Benzo(ghi)perylene	100		93		40-140	7		30
Fluorene	101		90		40-140	12		30
Phenanthrene	98		87		40-140	12		30
Dibenzo(a,h)anthracene	100		89		40-140	12		30
Indeno(1,2,3-cd)pyrene	100		89		40-140	12		30
Pyrene	96		87		40-140	10		30
Aniline	71		57		40-140	22		30
4-Chloroaniline	85		68		40-140	22		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG979254-2 WG979254-3								
Dibenzofuran	102		89		40-140	14		30
2-Methylnaphthalene	97		86		40-140	12		30
Acetophenone	104		93		40-140	11		30
2,4,6-Trichlorophenol	103		89		30-130	15		30
2-Chlorophenol	107		95		30-130	12		30
2,4-Dichlorophenol	112		98		30-130	13		30
2,4-Dimethylphenol	120		105		30-130	13		30
2-Nitrophenol	113		104		30-130	8		30
4-Nitrophenol	114		101		30-130	12		30
2,4-Dinitrophenol	68		51		30-130	29		30
Pentachlorophenol	75		65		30-130	14		30
Phenol	109		95		30-130	14		30
2-Methylphenol	110		99		30-130	11		30
3-Methylphenol/4-Methylphenol	116		102		30-130	13		30
2,4,5-Trichlorophenol	109		89		30-130	20		30
Pyridine	87		79		30-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG979254-2 WG979254-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	95		81		30-130
Phenol-d6	100		87		30-130
Nitrobenzene-d5	104		92		30-130
2-Fluorobiphenyl	85		72		30-130
2,4,6-Tribromophenol	77		64		30-130
4-Terphenyl-d14	79		69		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Lab Number: L1704558
Project Number: 171521.52
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/15/17 19:27
Analyst: DG
Percent Solids: 73%

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 02:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	66600		ug/kg	45000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	49		40-140

Project Name: WYNN EVERETT
Lab Number: L1704558
Project Number: 171521.52
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/15/17 20:00
Analyst: DG
Percent Solids: 67%

Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 02:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	125000		ug/kg	47800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	44		40-140

Project Name: WYNN EVERETT
Lab Number: L1704558
Project Number: 171521.52
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/19/17 17:24
Analyst: DG
Percent Solids: 70%

Date Collected: 02/14/17 10:20
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 02:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	46300	--	1

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

Project Name: WYNN EVERETT
Lab Number: L1704558
Project Number: 171521.52
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04 D
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/15/17 22:28
Analyst: DG
Percent Solids: 66%

Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 02:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	1130000		ug/kg	488000	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	101		40-140

Project Name: WYNN EVERETT
Lab Number: L1704558
Project Number: 171521.52
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 02/15/17 21:05
Analyst: DG
Percent Solids: 65%

Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 02:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	50100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 02/15/17 17:49
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 02/15/17 02:30

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-05 Batch: WG977891-1					
TPH	ND		ug/kg	32200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-05 Batch: WG977891-2								
TPH	113		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	88				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 02/16/17 06:33
Analyst: JA
Percent Solids: 73%

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 04:14
Cleanup Method: EPA 3665A
Cleanup Date: 02/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.4	--	1	A
Aroclor 1221	ND		ug/kg	44.4	--	1	A
Aroclor 1232	ND		ug/kg	44.4	--	1	A
Aroclor 1242	ND		ug/kg	44.4	--	1	B
Aroclor 1248	ND		ug/kg	44.4	--	1	A
Aroclor 1254	110		ug/kg	44.4	--	1	A
Aroclor 1260	61.1		ug/kg	44.4	--	1	B
Aroclor 1262	ND		ug/kg	44.4	--	1	A
Aroclor 1268	ND		ug/kg	44.4	--	1	A
PCBs, Total	171		ug/kg	44.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 02/16/17 06:50
Analyst: JA
Percent Solids: 67%

Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 04:14
Cleanup Method: EPA 3665A
Cleanup Date: 02/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	47.7	--	1	A
Aroclor 1221	ND		ug/kg	47.7	--	1	A
Aroclor 1232	ND		ug/kg	47.7	--	1	A
Aroclor 1242	ND		ug/kg	47.7	--	1	B
Aroclor 1248	ND		ug/kg	47.7	--	1	A
Aroclor 1254	87.1		ug/kg	47.7	--	1	A
Aroclor 1260	49.0		ug/kg	47.7	--	1	A
Aroclor 1262	ND		ug/kg	47.7	--	1	A
Aroclor 1268	ND		ug/kg	47.7	--	1	B
PCBs, Total	136		ug/kg	47.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID:	L1704558-03	Date Collected:	02/14/17 10:20
Client ID:	SHORELINE STOCKPILE-2C	Date Received:	02/14/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	02/15/17 04:14
Analytical Date:	02/16/17 07:06	Cleanup Method:	EPA 3665A
Analyst:	JA	Cleanup Date:	02/15/17
Percent Solids:	70%	Cleanup Method:	EPA 3660B
		Cleanup Date:	02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	46.2	--	1	A
Aroclor 1221	ND		ug/kg	46.2	--	1	A
Aroclor 1232	ND		ug/kg	46.2	--	1	A
Aroclor 1242	ND		ug/kg	46.2	--	1	A
Aroclor 1248	ND		ug/kg	46.2	--	1	A
Aroclor 1254	70.4		ug/kg	46.2	--	1	A
Aroclor 1260	ND		ug/kg	46.2	--	1	B
Aroclor 1262	ND		ug/kg	46.2	--	1	A
Aroclor 1268	ND		ug/kg	46.2	--	1	B
PCBs, Total	70.4		ug/kg	46.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID:	L1704558-04	Date Collected:	02/14/17 10:30
Client ID:	SHORELINE STOCKPILE-2D	Date Received:	02/14/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	02/15/17 04:14
Analytical Date:	02/16/17 07:23	Cleanup Method:	EPA 3665A
Analyst:	JA	Cleanup Date:	02/15/17
Percent Solids:	66%	Cleanup Method:	EPA 3660B
		Cleanup Date:	02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	49.6	--	1	A
Aroclor 1221	ND		ug/kg	49.6	--	1	A
Aroclor 1232	ND		ug/kg	49.6	--	1	A
Aroclor 1242	ND		ug/kg	49.6	--	1	B
Aroclor 1248	ND		ug/kg	49.6	--	1	A
Aroclor 1254	51.8		ug/kg	49.6	--	1	A
Aroclor 1260	ND		ug/kg	49.6	--	1	A
Aroclor 1262	ND		ug/kg	49.6	--	1	A
Aroclor 1268	ND		ug/kg	49.6	--	1	B
PCBs, Total	51.8		ug/kg	49.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 02/16/17 07:39
Analyst: JA
Percent Solids: 65%

Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 04:14
Cleanup Method: EPA 3665A
Cleanup Date: 02/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.5	--	1	A
Aroclor 1221	ND		ug/kg	50.5	--	1	A
Aroclor 1232	ND		ug/kg	50.5	--	1	A
Aroclor 1242	ND		ug/kg	50.5	--	1	B
Aroclor 1248	ND		ug/kg	50.5	--	1	A
Aroclor 1254	ND		ug/kg	50.5	--	1	A
Aroclor 1260	ND		ug/kg	50.5	--	1	A
Aroclor 1262	ND		ug/kg	50.5	--	1	A
Aroclor 1268	ND		ug/kg	50.5	--	1	B
PCBs, Total	ND		ug/kg	50.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 02/16/17 05:11
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 02/15/17 04:14
Cleanup Method: EPA 3665A
Cleanup Date: 02/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-05 Batch: WG977904-1						
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	85		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-05 Batch: WG977904-2 WG977904-3									
Aroclor 1016	84		86		40-140	2		30	A
Aroclor 1260	90		91		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		86		30-150	A
Decachlorobiphenyl	72		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		90		30-150	B
Decachlorobiphenyl	62		66		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01 D
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/19/17 13:24
Analyst: KEG
Percent Solids: 73%

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	53.5	--	5	A
Lindane	ND		ug/kg	17.8	--	5	A
Alpha-BHC	ND		ug/kg	22.3	--	5	A
Beta-BHC	ND		ug/kg	53.5	--	5	A
Heptachlor	ND		ug/kg	26.7	--	5	A
Aldrin	ND		ug/kg	53.5	--	5	A
Heptachlor epoxide	ND		ug/kg	100	--	5	A
Endrin	ND		ug/kg	22.3	--	5	A
Endrin ketone	ND		ug/kg	53.5	--	5	A
Dieldrin	ND		ug/kg	33.4	--	5	A
4,4'-DDE	ND		ug/kg	53.5	--	5	A
4,4'-DDD	ND		ug/kg	53.5	--	5	A
4,4'-DDT	ND		ug/kg	100	--	5	A
Endosulfan I	ND		ug/kg	53.5	--	5	A
Endosulfan II	ND		ug/kg	53.5	--	5	A
Endosulfan sulfate	ND		ug/kg	22.3	--	5	A
Methoxychlor	ND		ug/kg	100	--	5	A
Chlordane	ND		ug/kg	434	--	5	A
Hexachlorobenzene	ND		ug/kg	53.5	--	5	A
Toxaphene	ND		ug/kg	1000	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01 D
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/18/17 15:24
Analyst: KEG
Percent Solids: 73%
Methylation Date: 02/15/17 22:27

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/15/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	91000	--	20	A
MCPA	ND		ug/kg	91000	--	20	A
Dalapon	ND		ug/kg	910	--	20	A
Dicamba	ND		ug/kg	910	--	20	A
Dichloroprop	ND		ug/kg	910	--	20	A
2,4-D	ND		ug/kg	910	--	20	A
2,4-DB	ND		ug/kg	910	--	20	A
2,4,5-T	ND		ug/kg	910	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	910	--	20	A
Dinoseb	ND		ug/kg	910	--	20	A

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: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02 D
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/19/17 13:37
Analyst: KEG
Percent Solids: 67%

Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	59.0	--	5	A
Lindane	ND		ug/kg	19.7	--	5	A
Alpha-BHC	ND		ug/kg	24.6	--	5	A
Beta-BHC	ND		ug/kg	59.0	--	5	A
Heptachlor	ND		ug/kg	29.5	--	5	A
Aldrin	ND		ug/kg	59.0	--	5	A
Heptachlor epoxide	ND		ug/kg	111	--	5	A
Endrin	ND		ug/kg	24.6	--	5	A
Endrin ketone	ND		ug/kg	59.0	--	5	A
Dieldrin	ND		ug/kg	36.9	--	5	A
4,4'-DDE	ND		ug/kg	59.0	--	5	A
4,4'-DDD	ND		ug/kg	59.0	--	5	A
4,4'-DDT	ND		ug/kg	111	--	5	A
Endosulfan I	ND		ug/kg	59.0	--	5	A
Endosulfan II	ND		ug/kg	59.0	--	5	A
Endosulfan sulfate	ND		ug/kg	24.6	--	5	A
Methoxychlor	ND		ug/kg	111	--	5	A
Chlordane	ND		ug/kg	479	--	5	A
Hexachlorobenzene	ND		ug/kg	59.0	--	5	A
Toxaphene	ND		ug/kg	1110	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: WYNN EVERETT **Lab Number:** L1704558

Project Number: 171521.52 **Report Date:** 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02 D
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/18/17 15:44
Analyst: KEG
Percent Solids: 67%
Methylation Date: 02/15/17 22:27

Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/15/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	98000	--	20	A
MCPA	ND		ug/kg	98000	--	20	A
Dalapon	ND		ug/kg	980	--	20	A
Dicamba	ND		ug/kg	980	--	20	A
Dichloroprop	ND		ug/kg	980	--	20	A
2,4-D	ND		ug/kg	980	--	20	A
2,4-DB	ND		ug/kg	980	--	20	A
2,4,5-T	ND		ug/kg	980	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	980	--	20	A
Dinoseb	ND		ug/kg	980	--	20	A

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: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03 D
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/19/17 13:49
Analyst: KEG
Percent Solids: 70%

Date Collected: 02/14/17 10:20
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	55.2	--	5	A
Lindane	ND		ug/kg	18.4	--	5	A
Alpha-BHC	ND		ug/kg	23.0	--	5	A
Beta-BHC	ND		ug/kg	55.2	--	5	A
Heptachlor	ND		ug/kg	27.6	--	5	A
Aldrin	ND		ug/kg	55.2	--	5	A
Heptachlor epoxide	ND		ug/kg	104	--	5	A
Endrin	ND		ug/kg	23.0	--	5	A
Endrin ketone	ND		ug/kg	55.2	--	5	A
Dieldrin	ND		ug/kg	34.5	--	5	A
4,4'-DDE	ND		ug/kg	55.2	--	5	A
4,4'-DDD	ND		ug/kg	55.2	--	5	A
4,4'-DDT	ND		ug/kg	104	--	5	A
Endosulfan I	ND		ug/kg	55.2	--	5	A
Endosulfan II	ND		ug/kg	55.2	--	5	A
Endosulfan sulfate	ND		ug/kg	23.0	--	5	A
Methoxychlor	ND		ug/kg	104	--	5	A
Chlordane	ND		ug/kg	449	--	5	A
Hexachlorobenzene	ND		ug/kg	55.2	--	5	A
Toxaphene	ND		ug/kg	1040	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	92		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03 D
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/18/17 16:04
Analyst: KEG
Percent Solids: 70%
Methylation Date: 02/15/17 22:27

Date Collected: 02/14/17 10:20
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/15/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	93000	--	20	A
MCPA	ND		ug/kg	93000	--	20	A
Dalapon	ND		ug/kg	930	--	20	A
Dicamba	ND		ug/kg	930	--	20	A
Dichloroprop	ND		ug/kg	930	--	20	A
2,4-D	ND		ug/kg	930	--	20	A
2,4-DB	ND		ug/kg	930	--	20	A
2,4,5-T	ND		ug/kg	930	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	930	--	20	A
Dinoseb	ND		ug/kg	930	--	20	A

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: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04 D
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/19/17 14:02
Analyst: KEG
Percent Solids: 66%

Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	58.7	--	5	A
Lindane	ND		ug/kg	19.6	--	5	A
Alpha-BHC	ND		ug/kg	24.5	--	5	A
Beta-BHC	ND		ug/kg	58.7	--	5	A
Heptachlor	ND		ug/kg	29.4	--	5	A
Aldrin	ND		ug/kg	58.7	--	5	A
Heptachlor epoxide	ND		ug/kg	110	--	5	A
Endrin	ND		ug/kg	24.5	--	5	A
Endrin ketone	ND		ug/kg	58.7	--	5	A
Dieldrin	ND		ug/kg	36.7	--	5	A
4,4'-DDE	ND		ug/kg	58.7	--	5	A
4,4'-DDD	ND		ug/kg	58.7	--	5	A
4,4'-DDT	ND		ug/kg	110	--	5	A
Endosulfan I	ND		ug/kg	58.7	--	5	A
Endosulfan II	ND		ug/kg	58.7	--	5	A
Endosulfan sulfate	ND		ug/kg	24.5	--	5	A
Methoxychlor	ND		ug/kg	110	--	5	A
Chlordane	ND		ug/kg	477	--	5	A
Hexachlorobenzene	ND		ug/kg	58.7	--	5	A
Toxaphene	ND		ug/kg	1100	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04 D
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/18/17 16:23
Analyst: KEG
Percent Solids: 66%
Methylation Date: 02/15/17 22:27

Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/15/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	100000	--	20	A
MCPA	ND		ug/kg	100000	--	20	A
Dalapon	ND		ug/kg	1000	--	20	A
Dicamba	ND		ug/kg	1000	--	20	A
Dichloroprop	ND		ug/kg	1000	--	20	A
2,4-D	ND		ug/kg	1000	--	20	A
2,4-DB	ND		ug/kg	1000	--	20	A
2,4,5-T	ND		ug/kg	1000	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	1000	--	20	A
Dinoseb	ND		ug/kg	1000	--	20	A

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: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05 D
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 02/19/17 14:15
Analyst: KEG
Percent Solids: 65%

Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	59.3	--	5	A
Lindane	ND		ug/kg	19.8	--	5	A
Alpha-BHC	ND		ug/kg	24.7	--	5	A
Beta-BHC	ND		ug/kg	59.3	--	5	A
Heptachlor	ND		ug/kg	29.6	--	5	A
Aldrin	ND		ug/kg	59.3	--	5	A
Heptachlor epoxide	ND		ug/kg	111	--	5	A
Endrin	ND		ug/kg	24.7	--	5	A
Endrin ketone	ND		ug/kg	59.3	--	5	A
Dieldrin	ND		ug/kg	37.1	--	5	A
4,4'-DDE	ND		ug/kg	59.3	--	5	A
4,4'-DDD	ND		ug/kg	59.3	--	5	A
4,4'-DDT	ND		ug/kg	111	--	5	A
Endosulfan I	ND		ug/kg	59.3	--	5	A
Endosulfan II	ND		ug/kg	59.3	--	5	A
Endosulfan sulfate	ND		ug/kg	24.7	--	5	A
Methoxychlor	ND		ug/kg	111	--	5	A
Chlordane	ND		ug/kg	482	--	5	A
Hexachlorobenzene	ND		ug/kg	59.3	--	5	A
Toxaphene	ND		ug/kg	1110	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05 D
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 02/18/17 16:43
Analyst: KEG
Percent Solids: 65%
Methylation Date: 02/15/17 22:27

Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 02/15/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	100000	--	20	A
MCPA	ND		ug/kg	100000	--	20	A
Dalapon	ND		ug/kg	1000	--	20	A
Dicamba	ND		ug/kg	1000	--	20	A
Dichloroprop	ND		ug/kg	1000	--	20	A
2,4-D	ND		ug/kg	1000	--	20	A
2,4-DB	ND		ug/kg	1000	--	20	A
2,4,5-T	ND		ug/kg	1000	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	1000	--	20	A
Dinoseb	ND		ug/kg	1000	--	20	A

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: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 02/16/17 14:54
Analyst: RL

Extraction Method: EPA 3546
Extraction Date: 02/15/17 07:50
Cleanup Method: EPA 3620B
Cleanup Date: 02/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-05 Batch: WG977965-1						
Delta-BHC	ND		ug/kg	7.71	--	A
Lindane	ND		ug/kg	2.57	--	A
Alpha-BHC	ND		ug/kg	3.21	--	A
Beta-BHC	ND		ug/kg	7.71	--	A
Heptachlor	ND		ug/kg	3.85	--	A
Aldrin	ND		ug/kg	7.71	--	A
Heptachlor epoxide	ND		ug/kg	14.4	--	A
Endrin	ND		ug/kg	3.21	--	A
Endrin ketone	ND		ug/kg	7.71	--	A
Dieldrin	ND		ug/kg	4.82	--	A
4,4'-DDE	ND		ug/kg	7.71	--	A
4,4'-DDD	ND		ug/kg	7.71	--	A
4,4'-DDT	ND		ug/kg	14.4	--	A
Endosulfan I	ND		ug/kg	7.71	--	A
Endosulfan II	ND		ug/kg	7.71	--	A
Endosulfan sulfate	ND		ug/kg	3.21	--	A
Methoxychlor	ND		ug/kg	14.4	--	A
Chlordane	ND		ug/kg	62.6	--	A
Hexachlorobenzene	ND		ug/kg	7.71	--	A
Toxaphene	ND		ug/kg	144	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	85		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 02/17/17 21:25
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 02/15/17 02:50

Methylation Date: 02/15/17 22:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-05 Batch: WG978048-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	89		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-05 Batch: WG977965-2 WG977965-3									
Delta-BHC	101		76		40-140	28		30	A
Lindane	104		79		40-140	27		30	A
Alpha-BHC	116		90		40-140	25		30	A
Beta-BHC	114		89		40-140	25		30	A
Heptachlor	111		83		40-140	29		30	A
Aldrin	125		93		40-140	29		30	A
Heptachlor epoxide	119		88		40-140	30		30	A
Endrin	123		89		40-140	**32**	Q	30	A
Endrin ketone	94		71		40-140	28		30	A
Dieldrin	127		95		40-140	29		30	A
4,4'-DDE	126		89		40-140	**34**	Q	30	A
4,4'-DDD	123		86		40-140	**35**	Q	30	A
4,4'-DDT	116		82		40-140	**34**	Q	30	A
Endosulfan I	122		87		40-140	**33**	Q	30	A
Endosulfan II	121		86		40-140	**34**	Q	30	A
Endosulfan sulfate	64		50		40-140	25		30	A
Methoxychlor	115		85		40-140	30		30	A
Hexachlorobenzene	100		79		40-140	23		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-05 Batch: WG977965-2 WG977965-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		79		30-150	B
Decachlorobiphenyl	95		70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	104		81		30-150	A
Decachlorobiphenyl	88		69		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-05 Batch: WG977965-4 WG977965-5									
Toxaphene	95		97		40-140	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		81		30-150	B
Decachlorobiphenyl	74		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	A
Decachlorobiphenyl	64		64		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-05 Batch: WG978048-2 WG978048-3									
MCPP	118		119		40-140	1		30	A
MCPA	98		98		40-140	0		30	A
Dalapon	72		70		40-140	3		30	A
Dicamba	85		82		40-140	4		30	A
Dichloroprop	134		**144**	Q	40-140	7		30	A
2,4-D	104		108		40-140	4		30	A
2,4-DB	100		101		40-140	1		30	A
2,4,5-T	98		97		40-140	1		30	A
2,4,5-TP (Silvex)	89		87		40-140	2		30	A
Dinoseb	**8**	Q	**9**	Q	40-140	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	110		114		30-150	A
DCAA	101		118		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 73%

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.1		mg/kg	2.6	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Arsenic, Total	160		mg/kg	0.53	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Barium, Total	31		mg/kg	0.53	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.26	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Cadmium, Total	0.68		mg/kg	0.53	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Chromium, Total	24		mg/kg	0.53	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Lead, Total	190		mg/kg	2.6	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Mercury, Total	1.22		mg/kg	0.091	--	1	02/15/17 08:20	02/16/17 11:22	EPA 7471B	97,7471B	BV
Nickel, Total	13		mg/kg	1.3	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Selenium, Total	3.5		mg/kg	2.6	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Silver, Total	1.7		mg/kg	0.53	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.6	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Vanadium, Total	26		mg/kg	0.53	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS
Zinc, Total	170		mg/kg	2.6	--	1	02/16/17 19:15	02/17/17 11:51	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 67%

Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified

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	2.9	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Arsenic, Total	52		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Barium, Total	21		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.29	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Chromium, Total	21		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Lead, Total	64		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Mercury, Total	0.448		mg/kg	0.095	--	1	02/15/17 08:20	02/16/17 11:24	EPA 7471B	97,7471B	BV
Nickel, Total	11		mg/kg	1.5	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Vanadium, Total	24		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS
Zinc, Total	77		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 11:55	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 70%

Date Collected: 02/14/17 10:20
Date Received: 02/14/17
Field Prep: Not Specified

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	2.7	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Arsenic, Total	47		mg/kg	0.54	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Barium, Total	23		mg/kg	0.54	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.27	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.54	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Chromium, Total	19		mg/kg	0.54	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Lead, Total	82		mg/kg	2.7	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Mercury, Total	0.786		mg/kg	0.092	--	1	02/15/17 08:20	02/16/17 11:26	EPA 7471B	97,7471B	BV
Nickel, Total	12		mg/kg	1.4	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.7	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.54	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.7	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Vanadium, Total	26		mg/kg	0.54	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS
Zinc, Total	79		mg/kg	2.7	--	1	02/16/17 19:15	02/17/17 11:59	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 66%

Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified

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	2.9	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Arsenic, Total	69		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Barium, Total	26		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.29	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Chromium, Total	18		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Lead, Total	130		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Mercury, Total	0.726		mg/kg	0.100	--	1	02/15/17 08:20	02/16/17 11:28	EPA 7471B	97,7471B	BV
Nickel, Total	11		mg/kg	1.5	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Vanadium, Total	28		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS
Zinc, Total	92		mg/kg	2.9	--	1	02/16/17 19:15	02/17/17 12:03	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 65%

Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified

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	3.0	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Arsenic, Total	40		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Barium, Total	23		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.30	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Chromium, Total	27		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Lead, Total	77		mg/kg	3.0	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Mercury, Total	0.742		mg/kg	0.101	--	1	02/15/17 08:20	02/16/17 11:29	EPA 7471B	97,7471B	BV
Nickel, Total	14		mg/kg	1.5	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	3.0	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	3.0	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Vanadium, Total	35		mg/kg	0.59	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS
Zinc, Total	88		mg/kg	3.0	--	1	02/16/17 19:15	02/17/17 12:36	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

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): 01-05 Batch: WG977956-1										
Mercury, Total	ND		mg/kg	0.083	--	1	02/15/17 08:20	02/16/17 09:50	97,7471B	BV

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): 01-05 Batch: WG978555-1										
Antimony, Total	ND		mg/kg	2.0	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Barium, Total	ND		mg/kg	0.40	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Chromium, Total	ND		mg/kg	0.40	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Lead, Total	ND		mg/kg	2.0	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Nickel, Total	ND		mg/kg	1.0	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Selenium, Total	ND		mg/kg	2.0	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Silver, Total	ND		mg/kg	0.40	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Thallium, Total	ND		mg/kg	2.0	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS
Zinc, Total	ND		mg/kg	2.0	--	1	02/16/17 19:15	02/17/17 11:27	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG977956-2 WG977956-3 SRM Lot Number: D091-540								
Mercury, Total	104		114		72-128	9		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG978555-2 WG978555-3 SRM Lot Number: D091-540								
Antimony, Total	154		146		1-200	5		30
Arsenic, Total	103		96		80-121	7		30
Barium, Total	86		86		84-117	0		30
Beryllium, Total	94		85		83-117	10		30
Cadmium, Total	98		89		83-117	10		30
Chromium, Total	98		91		80-119	7		30
Lead, Total	103		89		82-118	15		30
Nickel, Total	108		93		83-117	15		30
Selenium, Total	96		90		79-121	6		30
Silver, Total	96		89		76-124	8		30
Thallium, Total	99		85		80-121	15		30
Vanadium, Total	96		87		78-122	10		30
Zinc, Total	98		88		82-118	11		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/15/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:10
Date Received: 02/14/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/15/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:20
Date Received: 02/14/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/15/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/15/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:40
Date Received: 02/14/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Wet Clay
Particle Size: Fine
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	02/15/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:00
Date Received: 02/14/17
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	940		umhos/cm	10	--	1	-	02/15/17 06:53	1,9050A	VB
Solids, Total	72.8		%	0.100	NA	1	-	02/15/17 14:26	121,2540G	JK
pH (H)	7.4		SU	-	NA	1	-	02/15/17 05:58	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/15/17 10:12	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:10	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-02
Client ID: SHORELINE STOCKPILE-2B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:10
Date Received: 02/14/17
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	1300		umhos/cm	10	--	1	-	02/15/17 06:53	1,9050A	VB
Solids, Total	67.2		%	0.100	NA	1	-	02/15/17 14:26	121,2540G	JK
pH (H)	7.4		SU	-	NA	1	-	02/15/17 05:58	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/15/17 10:12	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:10	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-03
Client ID: SHORELINE STOCKPILE-2C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:20
Date Received: 02/14/17
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	1400		umhos/cm	10	--	1	-	02/15/17 06:53	1,9050A	VB
Solids, Total	70.1		%	0.100	NA	1	-	02/15/17 14:26	121,2540G	JK
pH (H)	7.5		SU	-	NA	1	-	02/15/17 05:58	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/15/17 10:12	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:10	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-04
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:30
Date Received: 02/14/17
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	580		umhos/cm	10	--	1	-	02/15/17 06:53	1,9050A	VB
Solids, Total	66.2		%	0.100	NA	1	-	02/15/17 14:26	121,2540G	JK
pH (H)	7.6		SU	-	NA	1	-	02/15/17 05:58	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/15/17 10:12	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:10	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704558-05
Client ID: SHORELINE STOCKPILE-2E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:40
Date Received: 02/14/17
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	1500		umhos/cm	10	--	1	-	02/15/17 06:53	1,9050A	VB
Solids, Total	65.1		%	0.100	NA	1	-	02/15/17 14:26	121,2540G	JK
pH (H)	7.4		SU	-	NA	1	-	02/15/17 05:58	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	02/15/17 10:12	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:23	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:10	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1704558
Report Date: 02/20/17

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): 01-05 Batch: WG978164-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:14	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG978165-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	02/15/17 18:35	02/15/17 20:07	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1704558

Report Date: 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG977922-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG977929-1								
pH	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG978089-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG978164-2								
Cyanide, Reactive	77		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG978165-2								
Sulfide, Reactive	90		-		60-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG977922-2 QC Sample: L1704558-01 Client ID: SHORELINE STOCKPILE-2A						
Specific Conductance @ 25 C	940	1000	umhos/cm	6		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG977929-2 QC Sample: L1704558-01 Client ID: SHORELINE STOCKPILE-2A						
pH (H)	7.4	7.4	SU	0		5

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/14/2017 23:03

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704558-01A	Vial MeOH preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-01B	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-01C	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-01E	Glass 250ml/8oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-01F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.4	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)
L1704558-01G	Glass 500ml/16oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-01H	Vial Large Septa unpreserved (4o	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(2)
L1704558-02A	Vial MeOH preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-02B	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-02C	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704558-02E	Glass 250ml/8oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-02F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.4	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)
L1704558-02G	Glass 500ml/16oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-02H	Vial Large Septa unpreserved (4o	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(2)
L1704558-03A	Vial MeOH preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-03B	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-03C	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-03E	Glass 250ml/8oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-03F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.4	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: L1704558
Report Date: 02/20/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704558-03G	Glass 500ml/16oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-03H	Vial Large Septa unpreserved (4o	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(2)
L1704558-04A	Vial MeOH preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-04B	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-04C	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-04E	Glass 250ml/8oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-04F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.4	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)
L1704558-04G	Glass 500ml/16oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-04H	Vial Large Septa unpreserved (4o	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(2)
L1704558-05A	Vial MeOH preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-05B	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-05C	Vial water preserved	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(14)
L1704558-05E	Glass 250ml/8oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1704558
Report Date: 02/20/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704558-05F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.4	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)
L1704558-05G	Glass 500ml/16oz unpreserved	A	N/A	2.4	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1704558-05H	Vial Large Septa unpreserved (4o	A	N/A	2.4	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1704558
Project Number:	171521.52	**Report Date:**	02/20/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1704558
Project Number:	171521.52	**Report Date:**	02/20/17

Data Qualifiers

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:**	L1704558
Project Number:	171521.52	**Report Date:**	02/20/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

GZA

NH 2/15/17

CHAIN OF CUSTODY

PAGE DD 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: 2/14/17

ALPHA Job #: L1704558

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~~ WYNN EVERETT
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.0171521.52~~ 171521.52
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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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, ignit	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	Sample Specific Comments
01	Shoreline Stockpile - 2A	2/14/17	10:00	SOIL	DRS	☒	☒	☒	☒	☒	☒	☒	
02	Shoreline Stockpile - 2B		10:10		DRS	☒	☒	☒	☒	☒	☒	☒	
03	Shoreline Stockpile - 2C		10:20		DRS	☒	☒	☒	☒	☒	☒	☒	
04	Shoreline Stockpile - 2D		10:30		DRS	☒	☒	☒	☒	☒	☒	☒	
05	Shoreline Stockpile - 2E	↓	10:40	↓	DRS	☒	☒	☒	☒	☒	☒	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	2/14/17 @ 12:55	Rob Maestro AAL	2/14/17 12:55
Rob Maestro AAL	2/14/17 18:40		2/14/17 18:40

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.

GZA

CHAIN OF CUSTODY

PAGE DD 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: 2/14/17

ALPHA Job #: L1704558

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 meatals

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
01	Shoreline Stockpile - 2A	2/14/17	10:00	SOIL	DRS	☒	☒	☒	☒	☒	☒	☒							
02	Shoreline Stockpile - 2B		10:10		DRS	☒	☒	☒	☒	☒	☒	☒							
03	Shoreline Stockpile - 2C		10:20		DRS	☒	☒	☒	☒	☒	☒	☒							
04	Shoreline Stockpile - 2D		10:30		DRS	☒	☒	☒	☒	☒	☒	☒							
05	Shoreline Stockpile - 2E	↓	10:40	↓	DRS	☒	☒	☒	☒	☒	☒	☒							

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

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	2/14/17 @ 12:55	Rob Maestro AAL	2/14/17 12:55
Rob Maestro AAL	2/14/17 18:40		2/14/17 18:40

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1704558
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG978773-5	**Lab File ID**	: V11170216A06
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 02/16/17 09:57

Client Sample No.	Lab Sample ID	Analysis Date
WG978773-3LCS	WG978773-3	02/16/17 08:41
WG978773-4LCSD	WG978773-4	02/16/17 09:06
SHORELINE STOCKPILE-2A	L1704558-01	02/16/17 17:12
SHORELINE STOCKPILE-2D	L1704558-04	02/16/17 17:38
SHORELINE STOCKPILE-2E	L1704558-05	02/16/17 18:03

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1704558
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG978504-5	**Lab File ID**	: V11170216A06
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 02/16/17 09:57

Client Sample No.	Lab Sample ID	Analysis Date
WG978504-3LCS	WG978504-3	02/16/17 08:41
WG978504-4LCSD	WG978504-4	02/16/17 09:06
SHORELINE STOCKPILE-2B	L1704558-02	02/16/17 12:56
SHORELINE STOCKPILE-2C	L1704558-03	02/16/17 13:22

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1704558	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 02/16/17 08:41	
Lab File ID	: V11170216A03	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG978504-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	64	0
Dichlorodifluoromethane	0.292	0.242	-	17.1	20	54	0
Chloromethane	0.451	0.47	-	-4.2	20	67	0
Vinyl chloride	0.346	0.323	-	6.6	20	61	0
Bromomethane	0.152	0.138	-	9.2	20	60	0
Chloroethane	0.177	0.182	-	-2.8	20	61	0
Trichlorofluoromethane	0.361	0.344	-	4.7	20	61	0
Ethyl ether	0.146	0.148	-	-1.4	20	65	0
1,1-Dichloroethene	0.199	0.189	-	5	20	62	0
Carbon disulfide	0.765	0.713	-	6.8	20	63	0
Freon-113	0.18	0.172	-	4.4	20	61	0
Acrolein	0.034	0.028	-	17.6	20	45	0
Methylene chloride	0.264	0.282	-	-6.8	20	70	0
Acetone	0.106	0.104	-	1.9	20	59	0
trans-1,2-Dichloroethene	0.234	0.225	-	3.8	20	61	0
Methyl acetate	0.222	0.24	-	-8.1	20	75	0
Methyl tert-butyl ether	0.756	0.768	-	-1.6	20	67	0
tert-Butyl alcohol	0.026	0.026	-	0	20	68	0
Diisopropyl ether	1.413	1.578	-	-11.7	20	73	0
1,1-Dichloroethane	0.565	0.588	-	-4.1	20	67	0
Halothane	0.14	0.131	-	6.4	20	61	0
Acrylonitrile	0.105	0.11	-	-4.8	20	66	0
Ethyl tert-butyl ether	1.043	1.095	-	-5	20	69	0
Vinyl acetate	0.941	1.065	-	-13.2	20	74	0
cis-1,2-Dichloroethene	0.265	0.262	-	1.1	20	63	0
2,2-Dichloropropane	0.39	0.403	-	-3.3	20	67	0
Bromochloromethane	0.114	0.109	-	4.4	20	61	0
Cyclohexane	0.523	0.53	-	-1.3	20	66	0
Chloroform	0.478	0.489	-	-2.3	20	66	0
Ethyl acetate	0.342	0.38	-	-11.1	20	73	0
Carbon tetrachloride	0.317	0.304	-	4.1	20	62	0
Tetrahydrofuran	0.128	0.147	-	-14.8	20	74	0
Dibromofluoromethane	0.236	0.23	-	2.5	20	63	0
1,1,1-Trichloroethane	0.389	0.39	-	-0.3	20	64	0
2-Butanone	0.158	0.155	-	1.9	20	65	0
1,1-Dichloropropene	0.348	0.357	-	-2.6	20	65	0
Benzene	1.024	1.037	-	-1.3	20	66	0
tert-Amyl methyl ether	0.7	0.709	-	-1.3	20	66	0
1,2-Dichloroethane-d4	0.321	0.336	-	-4.7	20	69	0
1,2-Dichloroethane	0.45	0.484	-	-7.6	20	69	0
Methyl cyclohexane	0.357	0.348	-	2.5	20	63	0
Trichloroethene	0.257	0.25	-	2.7	20	63	0
Dibromomethane	0.151	0.156	-	-3.3	20	67	0
1,2-Dichloropropane	0.318	0.334	-	-5	20	68	0
2-Chloroethyl vinyl ether	0.161	0.141	-	12.4	20	56	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1704558	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 02/16/17 08:41	
Lab File ID	: V11170216A03	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG978504-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.365	0.369	-	-1.1	20	66	0
1,4-Dioxane	0.00225	0.00203	-	9.8	20	57	0
cis-1,3-Dichloropropene	0.432	0.437	-	-1.2	20	67	0
Chlorobenzene-d5	1	1	-	0	20	67	0
Toluene-d8	1.352	1.34	-	0.9	20	66	0
Toluene	0.899	0.854	-	5	20	64	0
4-Methyl-2-pentanone	0.145	0.133	-	8.3	20	66	0
Tetrachloroethene	0.327	0.286	-	12.5	20	58	0
trans-1,3-Dichloropropene	0.548	0.544	-	0.7	20	68	0
Ethyl methacrylate	20	17.454	-	12.7	20	64	0
1,1,2-Trichloroethane	0.261	0.263	-	-0.8	20	67	0
Chlorodibromomethane	0.335	0.31	-	7.5	20	62	0
1,3-Dichloropropane	0.562	0.567	-	-0.9	20	67	0
1,2-Dibromoethane	0.285	0.272	-	4.6	20	63	0
2-Hexanone	0.306	0.312	-	-2	20	70	0
Chlorobenzene	0.972	0.909	-	6.5	20	63	0
Ethylbenzene	1.74	1.685	-	3.2	20	65	0
1,1,1,2-Tetrachloroethane	0.341	0.316	-	7.3	20	62	0
p/m Xylene	0.631	0.593	-	6	20	62	0
o Xylene	0.603	0.571	-	5.3	20	63	0
Styrene	1.018	0.972	-	4.5	20	64	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
Bromoform	0.412	0.366	-	11.2	20	58	0
Isopropylbenzene	3.309	3.232	-	2.3	20	62	0
4-Bromofluorobenzene	1.064	1.154	-	-8.5	20	70	0
Bromobenzene	0.78	0.723	-	7.3	20	61	0
n-Propylbenzene	4.144	4.283	-	-3.4	20	66	0
1,4-Dichlorobutane	1.642	1.757	-	-7	20	70	0
1,1,2,2-Tetrachloroethane	0.783	0.8	-	-2.2	20	66	0
4-Ethyltoluene	3.249	3.265	-	-0.5	20	64	0
2-Chlorotoluene	2.943	3.03	-	-3	20	66	0
1,3,5-Trimethylbenzene	2.832	2.836	-	-0.1	20	65	0
1,2,3-Trichloropropane	0.664	0.692	-	-4.2	20	68	0
trans-1,4-Dichloro-2-buten	0.327	0.356	-	-8.9	20	71	0
4-Chlorotoluene	2.607	2.706	-	-3.8	20	67	0
tert-Butylbenzene	2.294	2.225	-	3	20	62	0
1,2,4-Trimethylbenzene	2.895	2.906	-	-0.4	20	64	0
sec-Butylbenzene	3.577	3.581	-	-0.1	20	64	0
p-Isopropyltoluene	2.913	2.864	-	1.7	20	62	0
1,3-Dichlorobenzene	1.545	1.469	-	4.9	20	61	0
1,4-Dichlorobenzene	1.555	1.474	-	5.2	20	62	0
p-Diethylbenzene	1.703	1.686	-	1	20	63	0
n-Butylbenzene	2.973	3.159	-	-6.3	20	69	0
1,2-Dichlorobenzene	1.448	1.365	-	5.7	20	62	0
1,2,4,5-Tetramethylbenzene	2.748	2.688	-	2.2	20	63	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1704558	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 02/16/17 08:41	
Lab File ID	: V11170216A03	**Init. Calib. Date(s)**	: 01/30/17	01/31/17
Sample No	: WG978504-2	**Init. Calib. Times**	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.104	0.086	-	17.3	20	58	0
1,3,5-Trichlorobenzene	1.101	1.013	-	8	20	59	0
Hexachlorobutadiene	0.485	0.4	-	17.5	20	53	0
1,2,4-Trichlorobenzene	0.985	0.89	-	9.6	20	58	0
Naphthalene	2.073	1.98	-	4.5	20	62	0
1,2,3-Trichlorobenzene	0.892	0.815	-	8.6	20	58	0

*** Value outside of QC limits.**

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1704558	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 02/16/17 08:41	
Lab File ID	: V11170216A03	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG978773-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	64	0
Dichlorodifluoromethane	0.292	0.242	-	17.1	20	54	0
Chloromethane	0.451	0.47	-	-4.2	20	67	0
Vinyl chloride	0.346	0.323	-	6.6	20	61	0
Bromomethane	0.152	0.138	-	9.2	20	60	0
Chloroethane	0.177	0.182	-	-2.8	20	61	0
Trichlorofluoromethane	0.361	0.344	-	4.7	20	61	0
Ethyl ether	0.146	0.148	-	-1.4	20	65	0
1,1-Dichloroethene	0.199	0.189	-	5	20	62	0
Carbon disulfide	0.765	0.713	-	6.8	20	63	0
Freon-113	0.18	0.172	-	4.4	20	61	0
Acrolein	0.034	0.028	-	17.6	20	45	0
Methylene chloride	0.264	0.282	-	-6.8	20	70	0
Acetone	0.106	0.104	-	1.9	20	59	0
trans-1,2-Dichloroethene	0.234	0.225	-	3.8	20	61	0
Methyl acetate	0.222	0.24	-	-8.1	20	75	0
Methyl tert-butyl ether	0.756	0.768	-	-1.6	20	67	0
tert-Butyl alcohol	0.026	0.026	-	0	20	68	0
Diisopropyl ether	1.413	1.578	-	-11.7	20	73	0
1,1-Dichloroethane	0.565	0.588	-	-4.1	20	67	0
Halothane	0.14	0.131	-	6.4	20	61	0
Acrylonitrile	0.105	0.11	-	-4.8	20	66	0
Ethyl tert-butyl ether	1.043	1.095	-	-5	20	69	0
Vinyl acetate	0.941	1.065	-	-13.2	20	74	0
cis-1,2-Dichloroethene	0.265	0.262	-	1.1	20	63	0
2,2-Dichloropropane	0.39	0.403	-	-3.3	20	67	0
Bromochloromethane	0.114	0.109	-	4.4	20	61	0
Cyclohexane	0.523	0.53	-	-1.3	20	66	0
Chloroform	0.478	0.489	-	-2.3	20	66	0
Ethyl acetate	0.342	0.38	-	-11.1	20	73	0
Carbon tetrachloride	0.317	0.304	-	4.1	20	62	0
Tetrahydrofuran	0.128	0.147	-	-14.8	20	74	0
Dibromofluoromethane	0.236	0.23	-	2.5	20	63	0
1,1,1-Trichloroethane	0.389	0.39	-	-0.3	20	64	0
2-Butanone	0.158	0.155	-	1.9	20	65	0
1,1-Dichloropropene	0.348	0.357	-	-2.6	20	65	0
Benzene	1.024	1.037	-	-1.3	20	66	0
tert-Amyl methyl ether	0.7	0.709	-	-1.3	20	66	0
1,2-Dichloroethane-d4	0.321	0.336	-	-4.7	20	69	0
1,2-Dichloroethane	0.45	0.484	-	-7.6	20	69	0
Methyl cyclohexane	0.357	0.348	-	2.5	20	63	0
Trichloroethene	0.257	0.25	-	2.7	20	63	0
Dibromomethane	0.151	0.156	-	-3.3	20	67	0
1,2-Dichloropropane	0.318	0.334	-	-5	20	68	0
2-Chloroethyl vinyl ether	0.161	0.141	-	12.4	20	56	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1704558	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 02/16/17 08:41	
Lab File ID	: V11170216A03	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG978773-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.365	0.369	-	-1.1	20	66	0
1,4-Dioxane	0.00225	0.00203	-	9.8	20	57	0
cis-1,3-Dichloropropene	0.432	0.437	-	-1.2	20	67	0
Chlorobenzene-d5	1	1	-	0	20	67	0
Toluene-d8	1.352	1.34	-	0.9	20	66	0
Toluene	0.899	0.854	-	5	20	64	0
4-Methyl-2-pentanone	0.145	0.133	-	8.3	20	66	0
Tetrachloroethene	0.327	0.286	-	12.5	20	58	0
trans-1,3-Dichloropropene	0.548	0.544	-	0.7	20	68	0
Ethyl methacrylate	20	17.454	-	12.7	20	64	0
1,1,2-Trichloroethane	0.261	0.263	-	-0.8	20	67	0
Chlorodibromomethane	0.335	0.31	-	7.5	20	62	0
1,3-Dichloropropane	0.562	0.567	-	-0.9	20	67	0
1,2-Dibromoethane	0.285	0.272	-	4.6	20	63	0
2-Hexanone	0.306	0.312	-	-2	20	70	0
Chlorobenzene	0.972	0.909	-	6.5	20	63	0
Ethylbenzene	1.74	1.685	-	3.2	20	65	0
1,1,1,2-Tetrachloroethane	0.341	0.316	-	7.3	20	62	0
p/m Xylene	0.631	0.593	-	6	20	62	0
o Xylene	0.603	0.571	-	5.3	20	63	0
Styrene	1.018	0.972	-	4.5	20	64	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	65	0
Bromoform	0.412	0.366	-	11.2	20	58	0
Isopropylbenzene	3.309	3.232	-	2.3	20	62	0
4-Bromofluorobenzene	1.064	1.154	-	-8.5	20	70	0
Bromobenzene	0.78	0.723	-	7.3	20	61	0
n-Propylbenzene	4.144	4.283	-	-3.4	20	66	0
1,4-Dichlorobutane	1.642	1.757	-	-7	20	70	0
1,1,2,2-Tetrachloroethane	0.783	0.8	-	-2.2	20	66	0
4-Ethyltoluene	3.249	3.265	-	-0.5	20	64	0
2-Chlorotoluene	2.943	3.03	-	-3	20	66	0
1,3,5-Trimethylbenzene	2.832	2.836	-	-0.1	20	65	0
1,2,3-Trichloropropane	0.664	0.692	-	-4.2	20	68	0
trans-1,4-Dichloro-2-buten	0.327	0.356	-	-8.9	20	71	0
4-Chlorotoluene	2.607	2.706	-	-3.8	20	67	0
tert-Butylbenzene	2.294	2.225	-	3	20	62	0
1,2,4-Trimethylbenzene	2.895	2.906	-	-0.4	20	64	0
sec-Butylbenzene	3.577	3.581	-	-0.1	20	64	0
p-Isopropyltoluene	2.913	2.864	-	1.7	20	62	0
1,3-Dichlorobenzene	1.545	1.469	-	4.9	20	61	0
1,4-Dichlorobenzene	1.555	1.474	-	5.2	20	62	0
p-Diethylbenzene	1.703	1.686	-	1	20	63	0
n-Butylbenzene	2.973	3.159	-	-6.3	20	69	0
1,2-Dichlorobenzene	1.448	1.365	-	5.7	20	62	0
1,2,4,5-Tetramethylbenzene	2.748	2.688	-	2.2	20	63	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1704558	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 02/16/17 08:41	
Lab File ID	: V11170216A03	**Init. Calib. Date(s)**	: 01/30/17	01/31/17
Sample No	: WG978773-2	**Init. Calib. Times**	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.104	0.086	-	17.3	20	58	0
1,3,5-Trichlorobenzene	1.101	1.013	-	8	20	59	0
Hexachlorobutadiene	0.485	0.4	-	17.5	20	53	0
1,2,4-Trichlorobenzene	0.985	0.89	-	9.6	20	58	0
Naphthalene	2.073	1.98	-	4.5	20	62	0
1,2,3-Trichlorobenzene	0.892	0.815	-	8.6	20	58	0

*** Value outside of QC limits.**

Data File Name	**18170216-01.d**
Data File Path	**I:\Pest18\170216**
Operator	**PEST18:keg**
Date Acquired	**2/16/2017 8:23**
Acq. Method File	**PEST.M**
Sample Name	**pem1817021601,42ee,,deg pp7743**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
4,4'-DDT	4.78	463921617.3	% Breakdown
4,4'-DDE	4.11	879788.152	
4,4'-DDD	4.58	3289987.75	0.89%
Endrin	4.51	260334077.1	% Breakdown
Endrin Aldehyde	4.98	1091535.346	
Endrin Ketone	5.47	2203149.43	1.25%
4,4'-DDT #2	5.41	248525602.00	% Breakdown
4,4'-DDE #2	4.76	786422.68	
4,4'-DDD #2	5.19	2846683.5	1.44%
Endrin #2	5.12	161189679.4	% Breakdown
Endrin Aldehyde #2	5.51	688100.971	
Endrin Ketone #2	6.06	1653063.009	1.43%

######### Data File Path **I:\Pest17\150918**

wg977965-1,2,3,4,5

I:\Pest18\170219\18170219-01.d

Data File Name	**18170219-01.d**
Data File Path	**I:\Pest18\170219**
Operator	**PEST18:keg**
Date Acquired	**2/19/2017 6:39**
Acq. Method File	**PEST.M**
Sample Name	**pem1817021901,42ee,,deg std pp774**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
4,4'-DDT	4.77	596512694	% Breakdown
4,4'-DDE	4.10	1313720.5	
4,4'-DDD	4.56	2805222.74	0.69%
Endrin	4.49	312359165	% Breakdown
Endrin Aldehyde	4.96	3214489.238	
Endrin Ketone	5.46	3458992.346	2.09%
4,4'-DDT #2	5.40	352986076.66	% Breakdown
4,4'-DDE #2	4.75	1439625.15	
4,4'-DDD #2	5.18	3968664.015	1.51%
Endrin #2	5.11	202335181.3	% Breakdown
Endrin Aldehyde #2	5.50	2230195.539	
Endrin Ketone #2	6.05	1946107.989	2.02%

######### Data File Path **I:\Pest17\150918**

L1704558-01d,02d,03d,04d,05d

ANALYTICAL REPORT

Lab Number:	L1705216
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:	02/22/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1705216
Report Date: 02/22/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1705216-01	SHORELINE STOCKPILE-2A	SOIL	1 HORIZON WAY, EVERETT, MA	02/14/17 10:00	02/14/17
L1705216-02	SHORELINE STOCKPILE-2D	SOIL	1 HORIZON WAY, EVERETT, MA	02/14/17 10:30	02/14/17

Project Name: WYNN EVERETT **Lab Number:** L1705216

Project Number: 171521.52 **Report Date:** 02/22/17

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?	YES
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: L1705216
Report Date: 02/22/17

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:**	L1705216
Project Number:	171521.52	**Report Date:**	02/22/17

Case Narrative (continued)

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 02/22/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1705216
Project Number: 171521.52
Report Date: 02/22/17

SAMPLE RESULTS

Lab ID: L1705216-01
Client ID: SHORELINE STOCKPILE-2A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:00
Date Received: 02/14/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/21/17 04:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/22/17 07:05	02/22/17 09:47	EPA 3015	1,6010C	JH
Lead, TCLP	ND		mg/l	0.50	--	1	02/22/17 07:05	02/22/17 09:47	EPA 3015	1,6010C	JH

Project Name: WYNN EVERETT
Lab Number: L1705216
Project Number: 171521.52
Report Date: 02/22/17

SAMPLE RESULTS

Lab ID: L1705216-02
Client ID: SHORELINE STOCKPILE-2D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 02/14/17 10:30
Date Received: 02/14/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 02/21/17 04:20

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	0.50	--	1	02/22/17 07:05	02/22/17 10:09	EPA 3015	1,6010C	JH

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1705216
Report Date: 02/22/17

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: WG979923-1										
Arsenic, TCLP	ND		mg/l	1.0	--	1	02/22/17 07:05	02/22/17 09:38	1,6010C	JH
Lead, TCLP	ND		mg/l	0.50	--	1	02/22/17 07:05	02/22/17 09:38	1,6010C	JH

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 02/21/17 04:20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1705216

Report Date: 02/22/17

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: WG979923-2								
Arsenic, TCLP	108		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1705216
Report Date: 02/22/17

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: WG979923-3 QC Sample: L1705216-01 Client ID: SHORELINE STOCKPILE-2A												
Arsenic, TCLP	ND	1.2	1.5	125		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.2	102		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1705216
Report Date: 02/22/17

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: WG979923-4 QC Sample: L1705216-01 Client ID: SHORELINE STOCKPILE-2A						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1705216
Report Date: 02/22/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705216-01A	Glass 500ml/16oz unpreserved	A	N/A	2.4	Y	Absent	-
L1705216-01X	Plastic 120ml HNO3 preserved Ext	A	<2	2.4	Y	Absent	AS-CI(180),PB-CI(180)
L1705216-01X9	Tumble Vessel	A	N/A	2.4	Y	Absent	-
L1705216-02A	Glass 500ml/16oz unpreserved	A	N/A	2.4	Y	Absent	-
L1705216-02X	Plastic 120ml HNO3 preserved Ext	A	<2	2.4	Y	Absent	PB-CI(180)
L1705216-02X9	Tumble Vessel	A	N/A	2.4	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1705216
Project Number:	171521.52	**Report Date:**	02/22/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1705216
Project Number:	171521.52	**Report Date:**	02/22/17

Data Qualifiers

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:**	L1705216
Project Number:	171521.52	**Report Date:**	02/22/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

GZA

NH 2/15/17

CHAIN OF CUSTODY

PAGE DD OF

L1705216 2/20/17 WM

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: 2/14/17

ALPHA Job #: ~~L1704558~~

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~~ WYNN EVERETT
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.0171521.52~~ 171521.52
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 meatals

*TCLP PB
**TCLP AS

ANALYSIS

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP 14 Metals	VOCs 8260	SVOCs 8270 with Pyridine	PCBs, TPH, pH, Flash	Herbicides, Pesticides w/ Toxiphrase	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	*	**	Sample Specific Comments
~~01~~	Shoreline Stockpile - 2A	2/14/17	10:00	SOIL	DRS	X	X	X	X	X	X	X	X	X	
~~02~~	Shoreline Stockpile - 2B		10:10		DRS	X	X	X	X	X	X	X			
~~03~~	Shoreline Stockpile - 2C		10:20		DRS	X	X	X	X	X	X	X			
05216-02 ~~04~~	Shoreline Stockpile - 2D		10:30		DRS	X	X	X	X	X	X	X	X		
~~05~~	Shoreline Stockpile - 2E	↓	10:40	↓	DRS	X	X	X	X	X	X	X			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
Rob Maestro AAL	2/14/17 @ 12:55	Rob Maestro AAL	2/14/17 12:55
Rob Maestro AAL	2/14/17 18:40		2/14/17 18:40

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:	L1707345
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:	03/15/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1707345
Report Date: 03/15/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1707345-01	MBTA WEST WM STOCKPILE S2	SOIL	1 HORIZON WAY, EVERETT, MA	03/09/17 08:00	03/09/17
L1707345-02	MBTA WEST WM STOCKPILE S1	SOIL	1 HORIZON WAY, EVERETT, MA	03/09/17 08:05	03/09/17

Project Name: WYNN EVERETT **Lab Number:** L1707345

Project Number: 171521.52 **Report Date:** 03/15/17

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: L1707345
Report Date: 03/15/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

A copy of the continuing calibration standard is included as an addendum to this report.

In reference to question H:

The initial calibration, associated with L1707345-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0020), as well as the average response factor for 1,4-dioxane.

PCBs

In reference to question G:

L1707345-02: One or more of the target analytes did not achieve the requested CAM reporting limits.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1707345-01 and -02: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG984716-2/-3 LCS/LCSD recoveries, associated with L1707345-01 and -02, are below the acceptance criteria for dinoseb (5%/6%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: 03/15/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 03/12/17 19:50
Analyst: TE
Percent Solids: 83%

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.71	--	1
Chloroform	ND		ug/kg	0.71	--	1
Carbon tetrachloride	ND		ug/kg	0.48	--	1
1,2-Dichloropropane	ND		ug/kg	1.7	--	1
Dibromochloromethane	ND		ug/kg	0.48	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.71	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	1.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.48	--	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	0.48	--	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	1.9	--	1
Bromoform	ND		ug/kg	1.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.71	--	1
Ethylbenzene	ND		ug/kg	0.48	--	1
Chloromethane	ND		ug/kg	1.9	--	1
Bromomethane	ND		ug/kg	0.95	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	0.95	--	1
1,1-Dichloroethene	ND		ug/kg	0.48	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.71	--	1
Trichloroethene	1.2		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1

Project Name: WYNN EVERETT **Lab Number:** L1707345

Project Number: 171521.52 **Report Date:** 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01 Date Collected: 03/09/17 08:00

Client ID: MBTA WEST WM STOCKPILE S2 Date Received: 03/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	0.95	--	1
p/m-Xylene	ND		ug/kg	0.95	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.48	--	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	4.8	--	1
Acetone	ND		ug/kg	17	--	1
Carbon disulfide	ND		ug/kg	1.9	--	1
Methyl ethyl ketone	ND		ug/kg	4.8	--	1
Methyl isobutyl ketone	ND		ug/kg	4.8	--	1
2-Hexanone	ND		ug/kg	4.8	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	1.9	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.9	--	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	2.4	--	1
n-Butylbenzene	ND		ug/kg	0.48	--	1
sec-Butylbenzene	ND		ug/kg	0.48	--	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	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	1.9	--	1
Isopropylbenzene	ND		ug/kg	0.48	--	1
p-Isopropyltoluene	ND		ug/kg	0.48	--	1
Naphthalene	2.2		ug/kg	1.9	--	1
n-Propylbenzene	ND		ug/kg	0.48	--	1
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

Project Name: WYNN EVERETT **Lab Number:** L1707345

Project Number: 171521.52 **Report Date:** 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01 Date Collected: 03/09/17 08:00

Client ID: MBTA WEST WM STOCKPILE S2 Date Received: 03/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	2.4	--	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	19	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	124		70-130
Dibromofluoromethane	104		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 03/12/17 20:16
Analyst: TE
Percent Solids: 88%

Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	--	1
1,1-Dichloroethane	ND		ug/kg	0.92	--	1
Chloroform	ND		ug/kg	0.92	--	1
Carbon tetrachloride	ND		ug/kg	0.61	--	1
1,2-Dichloropropane	ND		ug/kg	2.1	--	1
Dibromochloromethane	ND		ug/kg	0.61	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	--	1
Tetrachloroethene	ND		ug/kg	0.61	--	1
Chlorobenzene	ND		ug/kg	0.61	--	1
Trichlorofluoromethane	ND		ug/kg	2.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.61	--	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	0.61	--	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	2.4	--	1
Bromoform	ND		ug/kg	2.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Benzene	ND		ug/kg	0.61	--	1
Toluene	ND		ug/kg	0.92	--	1
Ethylbenzene	ND		ug/kg	0.61	--	1
Chloromethane	ND		ug/kg	2.4	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.61	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.92	--	1
Trichloroethene	ND		ug/kg	0.61	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1707345

Project Number: 171521.52 **Report Date:** 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02 Date Collected: 03/09/17 08:05

Client ID: MBTA WEST WM STOCKPILE S1 Date Received: 03/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.61	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.61	--	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	6.1	--	1
Acetone	ND		ug/kg	22	--	1
Carbon disulfide	ND		ug/kg	2.4	--	1
Methyl ethyl ketone	ND		ug/kg	6.1	--	1
Methyl isobutyl ketone	ND		ug/kg	6.1	--	1
2-Hexanone	ND		ug/kg	6.1	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	2.4	--	1
2,2-Dichloropropane	ND		ug/kg	3.1	--	1
1,2-Dibromoethane	ND		ug/kg	2.4	--	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	3.1	--	1
n-Butylbenzene	ND		ug/kg	0.61	--	1
sec-Butylbenzene	ND		ug/kg	0.61	--	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	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	2.4	--	1
Isopropylbenzene	ND		ug/kg	0.61	--	1
p-Isopropyltoluene	ND		ug/kg	0.61	--	1
Naphthalene	ND		ug/kg	2.4	--	1
n-Propylbenzene	ND		ug/kg	0.61	--	1
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

Project Name: WYNN EVERETT **Lab Number:** L1707345

Project Number: 171521.52 **Report Date:** 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02 Date Collected: 03/09/17 08:05

Client ID: MBTA WEST WM STOCKPILE S1 Date Received: 03/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.1	--	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	24	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 03/12/17 14:33
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG985040-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 03/12/17 14:33
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG985040-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 03/12/17 14:33
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG985040-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 03/12/17 14:33
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG985040-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG985040-3 WG985040-4								
Methylene chloride	103		104		70-130	1		20
1,1-Dichloroethane	103		102		70-130	1		20
Chloroform	97		97		70-130	0		20
Carbon tetrachloride	99		97		70-130	2		20
1,2-Dichloropropane	101		100		70-130	1		20
Dibromochloromethane	91		92		70-130	1		20
1,1,2-Trichloroethane	97		96		70-130	1		20
Tetrachloroethene	94		93		70-130	1		20
Chlorobenzene	94		93		70-130	1		20
Trichlorofluoromethane	103		102		70-130	1		20
1,2-Dichloroethane	100		99		70-130	1		20
1,1,1-Trichloroethane	102		101		70-130	1		20
Bromodichloromethane	94		95		70-130	1		20
trans-1,3-Dichloropropene	96		97		70-130	1		20
cis-1,3-Dichloropropene	96		96		70-130	0		20
1,1-Dichloropropene	104		102		70-130	2		20
Bromoform	88		89		70-130	1		20
1,1,2,2-Tetrachloroethane	99		97		70-130	2		20
Benzene	100		99		70-130	1		20
Toluene	97		97		70-130	0		20
Ethylbenzene	98		96		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG985040-3 WG985040-4								
Chloromethane	114		112		70-130	2		20
Bromomethane	87		84		70-130	4		20
Vinyl chloride	94		92		70-130	2		20
Chloroethane	92		91		70-130	1		20
1,1-Dichloroethene	102		99		70-130	3		20
trans-1,2-Dichloroethene	100		97		70-130	3		20
Trichloroethene	98		97		70-130	1		20
1,2-Dichlorobenzene	93		93		70-130	0		20
1,3-Dichlorobenzene	95		95		70-130	0		20
1,4-Dichlorobenzene	94		95		70-130	1		20
Methyl tert butyl ether	100		99		70-130	1		20
p/m-Xylene	97		96		70-130	1		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	97		96		70-130	1		20
Dibromomethane	95		94		70-130	1		20
1,4-Dichlorobutane	106		105		70-130	1		20
1,2,3-Trichloropropane	100		101		70-130	1		20
Styrene	93		93		70-130	0		20
Dichlorodifluoromethane	114		111		70-130	3		20
Acetone	104		92		70-130	12		20
Carbon disulfide	94		93		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG985040-3 WG985040-4								
Methyl ethyl ketone	94		90		70-130	4		20
Methyl isobutyl ketone	94		93		70-130	1		20
2-Hexanone	103		101		70-130	2		20
Ethyl methacrylate	87		86		70-130	1		20
Acrylonitrile	111		108		70-130	3		20
Bromochloromethane	95		94		70-130	1		20
Tetrahydrofuran	117		115		70-130	2		20
2,2-Dichloropropane	104		102		70-130	2		20
1,2-Dibromoethane	93		93		70-130	0		20
1,3-Dichloropropane	99		97		70-130	2		20
1,1,1,2-Tetrachloroethane	92		93		70-130	1		20
Bromobenzene	92		92		70-130	0		20
n-Butylbenzene	104		104		70-130	0		20
sec-Butylbenzene	102		102		70-130	0		20
tert-Butylbenzene	100		99		70-130	1		20
o-Chlorotoluene	101		101		70-130	0		20
p-Chlorotoluene	101		100		70-130	1		20
1,2-Dibromo-3-chloropropane	84		86		70-130	2		20
Hexachlorobutadiene	89		89		70-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		101		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG985040-3 WG985040-4								
Naphthalene	98		96		70-130	2		20
n-Propylbenzene	103		102		70-130	1		20
1,2,3-Trichlorobenzene	90		91		70-130	1		20
1,2,4-Trichlorobenzene	93		92		70-130	1		20
1,3,5-Trimethylbenzene	101		101		70-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
trans-1,4-Dichloro-2-butene	108		108		70-130	0		20
Diethyl ether	101		98		70-130	3		20
Diisopropyl Ether	110		110		70-130	0		20
Ethyl-Tert-Butyl-Ether	102		101		70-130	1		20
Tertiary-Amyl Methyl Ether	99		97		70-130	2		20
1,4-Dioxane	95		84		70-130	12		20
2-Chloroethylvinyl ether	86		89		70-130	3		20
Halothane	111		108		70-130	3		20
Ethyl Acetate	110		108		70-130	2		20
Freon-113	109		104		70-130	5		20
Vinyl acetate	106		105		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG985040-3 WG985040-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		104		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	108		109		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 03/10/17 16:06
Analyst: RC
Percent Solids: 83%

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/10/17 00:32

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	1300		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	--	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	700		ug/kg	120	--	1
Benzo(a)pyrene	670		ug/kg	160	--	1
Benzo(b)fluoranthene	850		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1707345

Project Number: 171521.52 **Report Date:** 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01 Date Collected: 03/09/17 08:00

Client ID: MBTA WEST WM STOCKPILE S2 Date Received: 03/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	320		ug/kg	120	--	1
Chrysene	690		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	240		ug/kg	120	--	1
Benzo(ghi)perylene	340		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	870		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	390		ug/kg	160	--	1
Pyrene	1200		ug/kg	120	--	1
Aniline	ND		ug/kg	230	--	1
4-Chloroaniline	ND		ug/kg	200	--	1
Dibenzofuran	ND		ug/kg	200	--	1
2-Methylnaphthalene	ND		ug/kg	230	--	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	420	--	1
4-Nitrophenol	ND		ug/kg	270	--	1
2,4-Dinitrophenol	ND		ug/kg	940	--	1
Pentachlorophenol	ND		ug/kg	390	--	1
Phenol	ND		ug/kg	200	--	1
2-Methylphenol	ND		ug/kg	200	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		30-130
Phenol-d6	61		30-130
Nitrobenzene-d5	57		30-130
2-Fluorobiphenyl	56		30-130
2,4,6-Tribromophenol	64		30-130
4-Terphenyl-d14	51		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 03/10/17 16:32
Analyst: RC
Percent Solids: 88%

Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/10/17 00:32

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	110	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	--	1
2-Chloronaphthalene	ND		ug/kg	190	--	1
1,2-Dichlorobenzene	240		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	1500		ug/kg	110	--	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	200	--	1
Hexachlorobutadiene	ND		ug/kg	190	--	1
Hexachloroethane	ND		ug/kg	150	--	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	820		ug/kg	110	--	1
Benzo(a)pyrene	650		ug/kg	150	--	1
Benzo(b)fluoranthene	990		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1707345

Project Number: 171521.52 **Report Date:** 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02 Date Collected: 03/09/17 08:05

Client ID: MBTA WEST WM STOCKPILE S1 Date Received: 03/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	310		ug/kg	110	--	1
Chrysene	840		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	280		ug/kg	110	--	1
Benzo(ghi)perylene	390		ug/kg	150	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	880		ug/kg	110	--	1
Dibenzo(a,h)anthracene	110		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	400		ug/kg	150	--	1
Pyrene	1400		ug/kg	110	--	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	110	--	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	410	--	1
4-Nitrophenol	ND		ug/kg	260	--	1
2,4-Dinitrophenol	ND		ug/kg	910	--	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	270	--	1
2,4,5-Trichlorophenol	ND		ug/kg	190	--	1
Pyridine	ND		ug/kg	200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		30-130
Phenol-d6	55		30-130
Nitrobenzene-d5	57		30-130
2-Fluorobiphenyl	53		30-130
2,4,6-Tribromophenol	54		30-130
4-Terphenyl-d14	47		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 03/10/17 10:49
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 03/09/17 17:29

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG984319-1					
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: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 03/10/17 10:49
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 03/09/17 17:29

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG984319-1					
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	780	--
Pentachlorophenol	ND		ug/kg	330	--
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 EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 03/10/17 10:49
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 03/09/17 17:29

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG984319-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		30-130
Phenol-d6	54		30-130
Nitrobenzene-d5	46		30-130
2-Fluorobiphenyl	50		30-130
2,4,6-Tribromophenol	55		30-130
4-Terphenyl-d14	61		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG984319-2 WG984319-3								
Acenaphthene	55		56		40-140	2		30
1,2,4-Trichlorobenzene	60		62		40-140	3		30
Hexachlorobenzene	58		59		40-140	2		30
Bis(2-chloroethyl)ether	59		62		40-140	5		30
2-Chloronaphthalene	60		61		40-140	2		30
1,2-Dichlorobenzene	56		59		40-140	5		30
1,3-Dichlorobenzene	54		58		40-140	7		30
1,4-Dichlorobenzene	55		58		40-140	5		30
3,3'-Dichlorobenzidine	45		47		40-140	4		30
2,4-Dinitrotoluene	61		64		40-140	5		30
2,6-Dinitrotoluene	64		66		40-140	3		30
Azobenzene	56		57		40-140	2		30
Fluoranthene	56		58		40-140	4		30
4-Bromophenyl phenyl ether	55		56		40-140	2		30
Bis(2-chloroisopropyl)ether	48		50		40-140	4		30
Bis(2-chloroethoxy)methane	62		64		40-140	3		30
Hexachlorobutadiene	51		53		40-140	4		30
Hexachloroethane	53		57		40-140	7		30
Isophorone	61		63		40-140	3		30
Naphthalene	55		58		40-140	5		30
Nitrobenzene	62		64		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG984319-2 WG984319-3								
Bis(2-ethylhexyl)phthalate	65		65		40-140	0		30
Butyl benzyl phthalate	60		63		40-140	5		30
Di-n-butylphthalate	59		61		40-140	3		30
Di-n-octylphthalate	67		69		40-140	3		30
Diethyl phthalate	58		60		40-140	3		30
Dimethyl phthalate	60		61		40-140	2		30
Benzo(a)anthracene	55		58		40-140	5		30
Benzo(a)pyrene	59		64		40-140	8		30
Benzo(b)fluoranthene	59		64		40-140	8		30
Benzo(k)fluoranthene	58		63		40-140	8		30
Chrysene	57		59		40-140	3		30
Acenaphthylene	59		61		40-140	3		30
Anthracene	58		61		40-140	5		30
Benzo(ghi)perylene	57		63		40-140	10		30
Fluorene	57		59		40-140	3		30
Phenanthrene	58		61		40-140	5		30
Dibenzo(a,h)anthracene	58		64		40-140	10		30
Indeno(1,2,3-cd)pyrene	57		64		40-140	12		30
Pyrene	56		59		40-140	5		30
Aniline	40		40		40-140	0		30
4-Chloroaniline	**31**	Q	**30**	Q	40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG984319-2 WG984319-3								
Dibenzofuran	55		58		40-140	5		30
2-Methylnaphthalene	59		60		40-140	2		30
Acetophenone	72		76		40-140	5		30
2,4,6-Trichlorophenol	61		62		30-130	2		30
2-Chlorophenol	65		68		30-130	5		30
2,4-Dichlorophenol	68		70		30-130	3		30
2,4-Dimethylphenol	73		74		30-130	1		30
2-Nitrophenol	67		71		30-130	6		30
4-Nitrophenol	59		63		30-130	7		30
2,4-Dinitrophenol	**25**	Q	**26**	Q	30-130	4		30
Pentachlorophenol	48		52		30-130	8		30
Phenol	66		68		30-130	3		30
2-Methylphenol	67		70		30-130	4		30
3-Methylphenol/4-Methylphenol	69		71		30-130	3		30
2,4,5-Trichlorophenol	64		66		30-130	3		30
Pyridine	44		48		30-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG984319-2 WG984319-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		71		30-130
Phenol-d6	72		74		30-130
Nitrobenzene-d5	62		65		30-130
2-Fluorobiphenyl	61		63		30-130
2,4,6-Tribromophenol	65		67		30-130
4-Terphenyl-d14	59		62		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Lab Number: L1707345
Project Number: 171521.52
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 03/10/17 21:48
Analyst: DG
Percent Solids: 83%

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/10/17 00:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	65700		ug/kg	38300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Project Name: WYNN EVERETT
Lab Number: L1707345
Project Number: 171521.52
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02 D
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 03/10/17 22:21
Analyst: DG
Percent Solids: 88%

Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/10/17 00:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	403000		ug/kg	182000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 03/10/17 12:33
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 03/09/17 15:45

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG984111-1					
TPH	ND		ug/kg	32100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG984111-2								
TPH	74		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	76				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 03/12/17 15:03
Analyst: JW
Percent Solids: 83%

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/10/17 16:52
Cleanup Method: EPA 3665A
Cleanup Date: 03/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 03/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	--	1	A
Aroclor 1221	ND		ug/kg	38.5	--	1	A
Aroclor 1232	ND		ug/kg	38.5	--	1	A
Aroclor 1242	ND		ug/kg	38.5	--	1	A
Aroclor 1248	ND		ug/kg	38.5	--	1	A
Aroclor 1254	ND		ug/kg	38.5	--	1	A
Aroclor 1260	ND		ug/kg	38.5	--	1	B
Aroclor 1262	ND		ug/kg	38.5	--	1	A
Aroclor 1268	ND		ug/kg	38.5	--	1	A
PCBs, Total	ND		ug/kg	38.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02 D
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 03/15/17 00:14
Analyst: HT
Percent Solids: 88%

Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/10/17 16:52
Cleanup Method: EPA 3665A
Cleanup Date: 03/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 03/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	185	--	5	A
Aroclor 1221	ND		ug/kg	185	--	5	A
Aroclor 1232	ND		ug/kg	185	--	5	A
Aroclor 1242	ND		ug/kg	185	--	5	A
Aroclor 1248	ND		ug/kg	185	--	5	A
Aroclor 1254	ND		ug/kg	185	--	5	A
Aroclor 1260	1740		ug/kg	185	--	5	A
Aroclor 1262	ND		ug/kg	185	--	5	A
Aroclor 1268	ND		ug/kg	185	--	5	A
PCBs, Total	1740		ug/kg	185	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 03/12/17 14:09
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/10/17 16:52
Cleanup Method: EPA 3665A
Cleanup Date: 03/11/17
Cleanup Method: EPA 3660B
Cleanup Date: 03/11/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG984596-1						
Aroclor 1016	ND		ug/kg	32.2	--	A
Aroclor 1221	ND		ug/kg	32.2	--	A
Aroclor 1232	ND		ug/kg	32.2	--	A
Aroclor 1242	ND		ug/kg	32.2	--	A
Aroclor 1248	ND		ug/kg	32.2	--	A
Aroclor 1254	ND		ug/kg	32.2	--	A
Aroclor 1260	ND		ug/kg	32.2	--	A
Aroclor 1262	ND		ug/kg	32.2	--	A
Aroclor 1268	ND		ug/kg	32.2	--	A
PCBs, Total	ND		ug/kg	32.2	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG984596-2 WG984596-3									
Aroclor 1016	81		76		40-140	6		30	A
Aroclor 1260	85		80		40-140	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		75		30-150	A
Decachlorobiphenyl	80		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		69		30-150	B
Decachlorobiphenyl	56		49		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 03/12/17 23:21
Analyst: AM
Percent Solids: 83%

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/11/17 11:24
Cleanup Method: EPA 3620B
Cleanup Date: 03/12/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.26	--	1	A
Lindane	ND		ug/kg	3.09	--	1	A
Alpha-BHC	ND		ug/kg	3.86	--	1	A
Beta-BHC	ND		ug/kg	9.26	--	1	A
Heptachlor	ND		ug/kg	4.63	--	1	A
Aldrin	ND		ug/kg	9.26	--	1	A
Heptachlor epoxide	ND		ug/kg	17.4	--	1	A
Endrin	ND		ug/kg	3.86	--	1	A
Endrin ketone	ND		ug/kg	9.26	--	1	A
Dieldrin	ND		ug/kg	5.79	--	1	A
4,4'-DDE	ND		ug/kg	9.26	--	1	A
4,4'-DDD	ND		ug/kg	9.26	--	1	A
4,4'-DDT	ND		ug/kg	17.4	--	1	A
Endosulfan I	ND		ug/kg	9.26	--	1	A
Endosulfan II	ND		ug/kg	9.26	--	1	A
Endosulfan sulfate	ND		ug/kg	3.86	--	1	A
Methoxychlor	ND		ug/kg	17.4	--	1	A
Chlordane	ND		ug/kg	75.2	--	1	A
Hexachlorobenzene	ND		ug/kg	9.26	--	1	A
Toxaphene	ND		ug/kg	174	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	98		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 03/14/17 00:29
Analyst: DM
Percent Solids: 83%
Methylation Date: 03/11/17 17:57

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 03/10/17 20:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3900	--	1	A
MCPA	ND		ug/kg	3900	--	1	A
Dalapon	ND		ug/kg	39	--	1	A
Dicamba	ND		ug/kg	39	--	1	A
Dichloroprop	ND		ug/kg	39	--	1	A
2,4-D	ND		ug/kg	39	--	1	A
2,4-DB	ND		ug/kg	39	--	1	A
2,4,5-T	ND		ug/kg	39	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	39	--	1	A
Dinoseb	ND		ug/kg	39	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	118		30-150	A
DCAA	88		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 03/12/17 23:33
Analyst: AM
Percent Solids: 88%

Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 03/11/17 11:24
Cleanup Method: EPA 3620B
Cleanup Date: 03/12/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.00	--	1	A
Lindane	ND		ug/kg	3.00	--	1	A
Alpha-BHC	ND		ug/kg	3.75	--	1	A
Beta-BHC	ND		ug/kg	9.00	--	1	A
Heptachlor	ND		ug/kg	4.50	--	1	A
Aldrin	ND		ug/kg	9.00	--	1	A
Heptachlor epoxide	ND		ug/kg	16.9	--	1	A
Endrin	ND		ug/kg	3.75	--	1	A
Endrin ketone	ND		ug/kg	9.00	--	1	A
Dieldrin	ND		ug/kg	5.62	--	1	A
4,4'-DDE	ND		ug/kg	9.00	--	1	A
4,4'-DDD	ND		ug/kg	9.00	--	1	A
4,4'-DDT	ND		ug/kg	16.9	--	1	A
Endosulfan I	ND		ug/kg	9.00	--	1	A
Endosulfan II	ND		ug/kg	9.00	--	1	A
Endosulfan sulfate	ND		ug/kg	3.75	--	1	A
Methoxychlor	ND		ug/kg	16.9	--	1	A
Chlordane	ND		ug/kg	73.1	--	1	A
Hexachlorobenzene	ND		ug/kg	9.00	--	1	A
Toxaphene	ND		ug/kg	169	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	96		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 03/14/17 00:48
Analyst: DM
Percent Solids: 88%
Methylation Date: 03/11/17 17:57

Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 03/10/17 20:50

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	119		30-150	A
DCAA	90		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 03/13/17 19:55
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 03/10/17 20:50

Methylation Date: 03/11/17 17:52

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-02 Batch: WG984716-1						
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
Dinoseb	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	74		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 03/12/17 22:18
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 03/11/17 11:24
Cleanup Method: EPA 3620B
Cleanup Date: 03/12/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-02 Batch: WG984814-1						
Delta-BHC	ND		ug/kg	7.63	--	A
Lindane	ND		ug/kg	2.54	--	A
Alpha-BHC	ND		ug/kg	3.18	--	A
Beta-BHC	ND		ug/kg	7.63	--	A
Heptachlor	ND		ug/kg	3.82	--	A
Aldrin	ND		ug/kg	7.63	--	A
Heptachlor epoxide	ND		ug/kg	14.3	--	A
Endrin	ND		ug/kg	3.18	--	A
Endrin ketone	ND		ug/kg	7.63	--	A
Dieldrin	ND		ug/kg	4.77	--	A
4,4'-DDE	ND		ug/kg	7.63	--	A
4,4'-DDD	ND		ug/kg	7.63	--	A
4,4'-DDT	ND		ug/kg	14.3	--	A
Endosulfan I	ND		ug/kg	7.63	--	A
Endosulfan II	ND		ug/kg	7.63	--	A
Endosulfan sulfate	ND		ug/kg	3.18	--	A
Methoxychlor	ND		ug/kg	14.3	--	A
Chlordane	ND		ug/kg	62.0	--	A
Hexachlorobenzene	ND		ug/kg	7.63	--	A
Toxaphene	ND		ug/kg	143	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	43		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	58		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG984716-2 WG984716-3									
MCPP	139		108		40-140	25		30	A
MCPA	92		86		40-140	7		30	A
Dalapon	63		71		40-140	12		30	A
Dicamba	83		80		40-140	4		30	A
Dichloroprop	110		94		40-140	16		30	A
2,4-D	86		85		40-140	1		30	A
2,4-DB	92		78		40-140	16		30	A
2,4,5-T	85		81		40-140	5		30	A
2,4,5-TP (Silvex)	78		79		40-140	1		30	A
Dinoseb	**5**	Q	**6**	Q	40-140	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	119		109		30-150	A
DCAA	84		81		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG984814-2 WG984814-3									
Delta-BHC	83		84		40-140	1		30	A
Lindane	82		82		40-140	0		30	A
Alpha-BHC	86		86		40-140	0		30	A
Beta-BHC	85		88		40-140	3		30	A
Heptachlor	84		82		40-140	2		30	A
Aldrin	85		86		40-140	1		30	A
Heptachlor epoxide	80		83		40-140	4		30	A
Endrin	77		83		40-140	8		30	A
Endrin ketone	60		67		40-140	11		30	A
Dieldrin	81		89		40-140	9		30	A
4,4'-DDE	81		83		40-140	2		30	A
4,4'-DDD	75		84		40-140	11		30	A
4,4'-DDT	74		82		40-140	10		30	A
Endosulfan I	78		79		40-140	1		30	A
Endosulfan II	70		76		40-140	8		30	A
Endosulfan sulfate	57		67		40-140	16		30	A
Methoxychlor	63		69		40-140	9		30	A
Hexachlorobenzene	74		76		40-140	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG984814-2 WG984814-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		74		30-150	B
Decachlorobiphenyl	50		52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		79		30-150	A
Decachlorobiphenyl	61		64		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

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: WG984814-4 WG984814-5									
Toxaphene	94		88		40-140	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		74		30-150	B
Decachlorobiphenyl	50		53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		77		30-150	A
Decachlorobiphenyl	71		69		30-150	A

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 83%

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	3.3		mg/kg	2.3	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Arsenic, Total	30		mg/kg	0.46	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Barium, Total	52		mg/kg	0.46	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Beryllium, Total	0.43		mg/kg	0.23	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Cadmium, Total	ND		mg/kg	0.46	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Chromium, Total	11		mg/kg	0.46	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Lead, Total	140		mg/kg	2.3	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Mercury, Total	0.583		mg/kg	0.080	--	1	03/10/17 06:10	03/10/17 12:35	EPA 7471B	97,7471B	BV
Nickel, Total	11		mg/kg	1.2	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Selenium, Total	ND		mg/kg	2.3	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Silver, Total	ND		mg/kg	0.46	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Thallium, Total	ND		mg/kg	2.3	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Vanadium, Total	23		mg/kg	0.46	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH
Zinc, Total	85		mg/kg	2.3	--	1	03/10/17 06:54	03/10/17 11:48	EPA 3050B	97,6010C	JH

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 88%

Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified

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	2.2	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Arsenic, Total	6.7		mg/kg	0.44	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Barium, Total	75		mg/kg	0.44	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Beryllium, Total	0.42		mg/kg	0.22	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Cadmium, Total	ND		mg/kg	0.44	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Chromium, Total	20		mg/kg	0.44	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Lead, Total	290		mg/kg	2.2	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Mercury, Total	0.174		mg/kg	0.075	--	1	03/10/17 06:10	03/10/17 12:36	EPA 7471B	97,7471B	BV
Nickel, Total	16		mg/kg	1.1	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Selenium, Total	ND		mg/kg	2.2	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Silver, Total	ND		mg/kg	0.44	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Thallium, Total	ND		mg/kg	2.2	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Vanadium, Total	23		mg/kg	0.44	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH
Zinc, Total	160		mg/kg	2.2	--	1	03/10/17 06:54	03/10/17 11:52	EPA 3050B	97,6010C	JH

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

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: WG984403-1										
Mercury, Total	ND		mg/kg	0.083	--	1	03/10/17 06:10	03/10/17 12:27	97,7471B	BV

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: WG984420-1										
Antimony, Total	ND		mg/kg	2.0	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Barium, Total	ND		mg/kg	0.40	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Chromium, Total	ND		mg/kg	0.40	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Lead, Total	ND		mg/kg	2.0	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Nickel, Total	ND		mg/kg	1.0	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Selenium, Total	ND		mg/kg	2.0	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Silver, Total	ND		mg/kg	0.40	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Thallium, Total	ND		mg/kg	2.0	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH
Zinc, Total	ND		mg/kg	2.0	--	1	03/10/17 06:54	03/10/17 11:26	97,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG984403-2 WG984403-3 SRM Lot Number: D091-540								
Mercury, Total	102		98		72-128	4		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG984420-2 WG984420-3 SRM Lot Number: D091-540								
Antimony, Total	130		163		1-200	23		30
Arsenic, Total	103		96		80-121	7		30
Barium, Total	100		86		84-117	15		30
Beryllium, Total	103		88		83-117	16		30
Cadmium, Total	103		100		83-117	3		30
Chromium, Total	105		91		80-119	14		30
Lead, Total	103		96		82-118	7		30
Nickel, Total	101		101		83-117	0		30
Selenium, Total	101		90		79-121	12		30
Silver, Total	102		83		76-124	21		30
Thallium, Total	99		99		80-121	0		30
Vanadium, Total	104		96		78-122	8		30
Zinc, Total	98		93		82-118	5		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 03/09/17 08:00
Date Received: 03/09/17
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	03/09/17 22:26	1,1030	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 03/09/17 08:05
Date Received: 03/09/17
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	03/09/17 22:26	1,1030	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 03/09/17 08:00
Date Received: 03/09/17
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	310		umhos/cm	10	--	1	-	03/09/17 22:56	1,9050A	AS
Solids, Total	83.4		%	0.100	NA	1	-	03/10/17 12:54	121,2540G	RI
pH (H)	7.2		SU	-	NA	1	-	03/09/17 22:11	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	03/13/17 14:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	03/10/17 17:45	03/10/17 19:37	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	03/10/17 17:45	03/10/17 19:30	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

SAMPLE RESULTS

Lab ID: L1707345-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 03/09/17 08:05
Date Received: 03/09/17
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	81		umhos/cm	10	--	1	-	03/09/17 22:56	1,9050A	AS
Solids, Total	87.7		%	0.100	NA	1	-	03/10/17 12:54	121,2540G	RI
pH (H)	8.0		SU	-	NA	1	-	03/09/17 22:11	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	03/13/17 14:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	03/10/17 17:45	03/10/17 19:38	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	03/10/17 17:45	03/10/17 19:30	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707345
Report Date: 03/15/17

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: WG984669-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	03/10/17 17:45	03/10/17 19:36	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG984671-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	03/10/17 17:45	03/10/17 19:29	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707345

Report Date: 03/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG984361-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG984362-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG984669-2								
Cyanide, Reactive	37		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG984671-2								
Sulfide, Reactive	89		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG985161-1								
Flash Point	100		-		96-104	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG984570-1 QC Sample: L1707345-01 Client ID: MBTA WEST WM STOCKPILE S2						
Solids, Total	83.4	83.0	%	0		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 03/09/2017 21:57

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1707345-01A	Vial MeOH preserved	A	NA	3.5	Y	Absent	MCP-8260HLW-10(14)
L1707345-01B	Vial water preserved	A	NA	3.5	Y	Absent	MCP-8260HLW-10(14)
L1707345-01C	Vial water preserved	A	NA	3.5	Y	Absent	MCP-8260HLW-10(14)
L1707345-01E	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(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1707345-01F	Metals Only - Glass 60mL/2oz unp	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-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)
L1707345-01G	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(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1707345-01H	Vial Large Septa unpreserved (4o	A	NA	3.5	Y	Absent	MCP-8260HLW-10(2)
L1707345-02A	Vial MeOH preserved	A	NA	3.5	Y	Absent	MCP-8260HLW-10(14)
L1707345-02B	Vial water preserved	A	NA	3.5	Y	Absent	MCP-8260HLW-10(14)
L1707345-02C	Vial water preserved	A	NA	3.5	Y	Absent	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707345
Report Date: 03/15/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1707345-02E	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(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1707345-02F	Metals Only - Glass 60mL/2oz unp	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-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)
L1707345-02G	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(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1707345-02H	Vial Large Septa unpreserved (4o	A	NA	3.5	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1707345
Project Number:	171521.52	**Report Date:**	03/15/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1707345
Project Number:	171521.52	**Report Date:**	03/15/17

Data Qualifiers

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:**	L1707345
Project Number:	171521.52	**Report Date:**	03/15/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

GZA Revised AK 3/10/17

CHAIN OF CUSTODY

PAGE DD 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: 3/9/17

ALPHA Job #: L1707345

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~~ Wynn Everett
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.0171521.52~~ 171521.52
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
TCLP 20x rule applies for MCP-14 meatals

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

Ignitability

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

Sample Specific Comments

TOTAL # BOTTLES

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)						
07345_01	MBTA West WM Stockpile S2	3/9/17	0800	Soil	JTB	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
02	MBTA West WM Stockpile S1	3/9/17	0805	Soil	JTB	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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Container Type	G	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/17 @ 12:45	Rob Maesto AAL	3/9/17 12:45
Rob Maesto AAL	3/9/17 18:25		3/9/17 18:25

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.

GZA

CHAIN OF CUSTODY

PAGE DD 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: 3/9/17

ALPHA Job #: L1707345

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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
07345_01	MBTA West WM Stockpile S2	3/9/17	0800	Soil	JTB	X	X	X	X	X	X	X							
02	MBTA West WM Stockpile S1	3/9/17	0805	Soil	JTB	X	X	X	X	X	X	X							
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
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Container Type	G	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/17 @ 12:45	Rob Maesto AAL	3/9/17 12:45
Rob Maesto AAL	3/9/17 18:25		3/9/17 18:25

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1707345
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG985040-5	**Lab File ID**	: V11170312A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 03/12/17 14:33

Client Sample No.	Lab Sample ID	Analysis Date
WG985040-3LCS	WG985040-3	03/12/17 12:52
WG985040-4LCSD	WG985040-4	03/12/17 13:17
MBTA WEST WM STOCKPILE S2	L1707345-01	03/12/17 19:50
MBTA WEST WM STOCKPILE S1	L1707345-02	03/12/17 20:16

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1707345	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 03/12/17 12:52	
Lab File ID	: V11170312A01	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG985040-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	65	-.01
Dichlorodifluoromethane	0.292	0.334	-	-14.4	20	76	0
Chloromethane	0.451	0.514	-	-14	20	75	0
Vinyl chloride	0.346	0.327	-	5.5	20	63	0
Bromomethane	0.152	0.131	-	13.8	20	58	0
Chloroethane	0.177	0.163	-	7.9	20	56	0
Trichlorofluoromethane	0.361	0.372	-	-3	20	67	0
Ethyl ether	0.146	0.148	-	-1.4	20	67	0
1,1-Dichloroethene	0.199	0.203	-	-2	20	68	0
Carbon disulfide	0.765	0.722	-	5.6	20	65	0
Freon-113	0.18	0.196	-	-8.9	20	71	0
Acrolein	0.034	0.054	-	-58.8*	20	87	-.01
Methylene chloride	0.264	0.271	-	-2.7	20	69	0
Acetone	0.106	0.11	-	-3.8	20	63	0
trans-1,2-Dichloroethene	0.234	0.234	-	0	20	65	0
Methyl acetate	0.222	0.254	-	-14.4	20	81	-.01
Methyl tert-butyl ether	0.756	0.753	-	0.4	20	67	-.01
tert-Butyl alcohol	0.026	0.026	-	0	20	69	0
Diisopropyl ether	1.413	1.548	-	-9.6	20	73	0
1,1-Dichloroethane	0.565	0.581	-	-2.8	20	68	0
Halothane	0.14	0.155	-	-10.7	20	74	0
Acrylonitrile	0.105	0.116	-	-10.5	20	72	-.01
Ethyl tert-butyl ether	1.043	1.06	-	-1.6	20	68	0
Vinyl acetate	0.941	0.994	-	-5.6	20	70	-.01
cis-1,2-Dichloroethene	0.265	0.258	-	2.6	20	63	0
2,2-Dichloropropane	0.39	0.406	-	-4.1	20	68	-.01
Bromochloromethane	0.114	0.108	-	5.3	20	62	-.01
Cyclohexane	0.523	0.596	-	-14	20	75	0
Chloroform	0.478	0.465	-	2.7	20	63	-.01
Ethyl acetate	0.342	0.375	-	-9.6	20	74	-.01
Carbon tetrachloride	0.317	0.314	-	0.9	20	65	-.01
Tetrahydrofuran	0.128	0.149	-	-16.4	20	76	-.01
Dibromofluoromethane	0.236	0.238	-	-0.8	20	66	-.01
1,1,1-Trichloroethane	0.389	0.396	-	-1.8	20	66	0
2-Butanone	0.158	0.148	-	6.3	20	63	0
1,1-Dichloropropene	0.348	0.362	-	-4	20	68	0
Benzene	1.024	1.02	-	0.4	20	66	-.01
tert-Amyl methyl ether	0.7	0.696	-	0.6	20	66	-.01
1,2-Dichloroethane-d4	0.321	0.337	-	-5	20	70	-.01
1,2-Dichloroethane	0.45	0.449	-	0.2	20	65	-.01
Methyl cyclohexane	0.357	0.379	-	-6.2	20	70	-.01
Trichloroethene	0.257	0.252	-	1.9	20	64	-.01
Dibromomethane	0.151	0.144	-	4.6	20	63	0
1,2-Dichloropropane	0.318	0.321	-	-0.9	20	66	-.01
2-Chloroethyl vinyl ether	0.161	0.138	-	14.3	20	56	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1707345	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 03/12/17 12:52	
Lab File ID	: V11170312A01	Init. Calib. Date(s)	: 01/30/17	01/31/17
Sample No	: WG985040-2	Init. Calib. Times	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.365	0.341	-	6.6	20	62	-.01
1,4-Dioxane	0.00225	0.00215	-	4.4	20	61	-.01
cis-1,3-Dichloropropene	0.432	0.417	-	3.5	20	65	-.01
Chlorobenzene-d5	1	1	-	0	20	66	-.01
Toluene-d8	1.352	1.421	-	-5.1	20	69	-.01
Toluene	0.899	0.872	-	3	20	64	-.01
4-Methyl-2-pentanone	0.145	0.136	-	6.2	20	66	0
Tetrachloroethene	0.327	0.308	-	5.8	20	61	0
trans-1,3-Dichloropropene	0.548	0.529	-	3.5	20	65	0
Ethyl methacrylate	20	17.433	-	12.8	20	63	-.01
1,1,2-Trichloroethane	0.261	0.254	-	2.7	20	63	0
Chlorodibromomethane	0.335	0.306	-	8.7	20	60	-.01
1,3-Dichloropropane	0.562	0.556	-	1.1	20	65	-.01
1,2-Dibromoethane	0.285	0.264	-	7.4	20	60	-.01
2-Hexanone	0.306	0.317	-	-3.6	20	70	-.01
Chlorobenzene	0.972	0.909	-	6.5	20	62	-.01
Ethylbenzene	1.74	1.698	-	2.4	20	64	0
1,1,1,2-Tetrachloroethane	0.341	0.312	-	8.5	20	60	-.01
p/m Xylene	0.631	0.613	-	2.9	20	63	0
o Xylene	0.603	0.575	-	4.6	20	62	0
Styrene	1.018	0.949	-	6.8	20	61	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	64	0
Bromoform	0.412	0.361	-	12.4	20	56	0
Isopropylbenzene	3.309	3.316	-	-0.2	20	63	0
4-Bromofluorobenzene	1.064	1.144	-	-7.5	20	68	0
Bromobenzene	0.78	0.72	-	7.7	20	59	0
n-Propylbenzene	4.144	4.267	-	-3	20	65	0
1,4-Dichlorobutane	1.642	1.746	-	-6.3	20	68	0
1,1,2,2-Tetrachloroethane	0.783	0.774	-	1.1	20	63	0
4-Ethyltoluene	3.249	3.294	-	-1.4	20	64	0
2-Chlorotoluene	2.943	2.98	-	-1.3	20	64	0
1,3,5-Trimethylbenzene	2.832	2.855	-	-0.8	20	64	0
1,2,3-Trichloropropane	0.664	0.667	-	-0.5	20	64	0
trans-1,4-Dichloro-2-buten	0.327	0.355	-	-8.6	20	69	0
4-Chlorotoluene	2.607	2.626	-	-0.7	20	64	0
tert-Butylbenzene	2.294	2.304	-	-0.4	20	63	0
1,2,4-Trimethylbenzene	2.895	2.887	-	0.3	20	62	0
sec-Butylbenzene	3.577	3.646	-	-1.9	20	64	0
p-Isopropyltoluene	2.913	2.929	-	-0.5	20	62	0
1,3-Dichlorobenzene	1.545	1.47	-	4.9	20	60	0
1,4-Dichlorobenzene	1.555	1.461	-	6	20	60	0
p-Diethylbenzene	1.703	1.709	-	-0.4	20	63	0
n-Butylbenzene	2.973	3.101	-	-4.3	20	66	0
1,2-Dichlorobenzene	1.448	1.346	-	7	20	59	0
1,2,4,5-Tetramethylbenzene	2.748	2.68	-	2.5	20	62	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1707345	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 03/12/17 12:52	
Lab File ID	: V11170312A01	**Init. Calib. Date(s)**	: 01/30/17	01/31/17
Sample No	: WG985040-2	**Init. Calib. Times**	: 21:39	00:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.104	0.087	-	16.3	20	57	0
1,3,5-Trichlorobenzene	1.101	1.005	-	8.7	20	57	0
Hexachlorobutadiene	0.485	0.432	-	10.9	20	56	0
1,2,4-Trichlorobenzene	0.985	0.912	-	7.4	20	59	0
Naphthalene	2.073	2.028	-	2.2	20	62	0
1,2,3-Trichlorobenzene	0.892	0.807	-	9.5	20	57	0

* Value outside of QC limits.

I:\Pest18\170312a\18170312a-01.d

Data File Name	**18170312a-01.d**
Data File Path	**I:\Pest18\170312a**
Operator	**PEST18:keg**
Date Acquired	**3/12/2017 19:02**
Acq. Method File	**PEST.M**
Sample Name	**pem18170312a01,42ee,,c**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
4,4'-DDT	4.87	432296063.7	% Breakdown
4,4'-DDE	4.21	967991.041	
4,4'-DDD	4.66	1535210.431	0.58%
Endrin	4.60	226199655.4	% Breakdown
Endrin Aldehyde	5.06	1095669.184	
Endrin Ketone	5.56	2386354.562	1.52%
4,4'-DDT #2	5.50	142540432	% Breakdown
4,4'-DDE #2	4.85	512689.668	
4,4'-DDD #2	5.28	947343.078	1.01%
Endrin #2	5.21	84754283.32	% Breakdown
Endrin Aldehyde #2	5.59	801586.251	
Endrin Ketone #2	6.15	1185120.978	2.29%

wg984814-1,2,3,4,5
L1707345-01,02

ANALYTICAL REPORT

Lab Number:	L1707679
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:	03/17/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1707679
Report Date: 03/17/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1707679-01	MBTA WEST WM STOCKPILE S2	SOIL	1 HORIZON WAY, EVERETT, MA	03/09/17 08:00	03/09/17
L1707679-02	MBTA WEST WM STOCKPILE S1	SOIL	1 HORIZON WAY, EVERETT, MA	03/09/17 08:05	03/09/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707679
Report Date: 03/17/17

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.

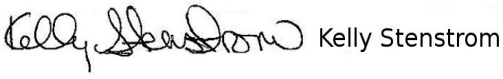
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 03/17/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1707679
Project Number: 171521.52
Report Date: 03/17/17

SAMPLE RESULTS

Lab ID: L1707679-01
Client ID: MBTA WEST WM STOCKPILE S2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 03/09/17 08:00
Date Received: 03/09/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 03/15/17 16:21

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	0.50	--	1	03/16/17 12:02	03/16/17 17:18	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1707679
Project Number: 171521.52
Report Date: 03/17/17

SAMPLE RESULTS

Lab ID: L1707679-02
Client ID: MBTA WEST WM STOCKPILE S1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 03/09/17 08:05
Date Received: 03/09/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 03/15/17 16:21

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	7.2		mg/l	0.50	--	1	03/16/17 12:02	03/16/17 18:01	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1707679
Report Date: 03/17/17

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: WG985874-1										
Lead, TCLP	ND		mg/l	0.50	--	1	03/16/17 12:02	03/16/17 16:45	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 03/15/17 16:21

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1707679

Report Date: 03/17/17

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: WG985874-2								
Lead, TCLP	88		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707679
Report Date: 03/17/17

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: WG985874-3 QC Sample: L1707679-01 Client ID: MBTA WEST WM STOCKPILE S2												
Lead, TCLP	ND	5.1	4.6	90		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707679
Report Date: 03/17/17

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: WG985874-4 QC Sample: L1707679-01 Client ID: MBTA WEST WM STOCKPILE S2						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1707679
Report Date: 03/17/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1707679-01A	Glass 500ml/16oz unpreserved	A	N/A	3.5	Y	Absent	-
L1707679-01X	Plastic 120ml HNO3 preserved Ext	A	<2	3.5	Y	Absent	PB-CI(180)
L1707679-01X9	Tumble Vessel	A	N/A	3.5	Y	Absent	-
L1707679-02A	Glass 500ml/16oz unpreserved	A	N/A	3.5	Y	Absent	-
L1707679-02X	Plastic 120ml HNO3 preserved Ext	A	<2	3.5	Y	Absent	PB-CI(180)
L1707679-02X9	Tumble Vessel	A	N/A	3.5	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1707679
Project Number:	171521.52	**Report Date:**	03/17/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1707679
Project Number:	171521.52	**Report Date:**	03/17/17

Data Qualifiers

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
Project Number: 171521.52
Lab Number: L1707679
Report Date: 03/17/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

GZA

JK 3/15/17 L1707679

CHAIN OF CUSTODY

PAGE DD 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: 3/9/17

ALPHA Job #: ~~L170 7345~~

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~~ Wynn Everett
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.01~~ 171521.52
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 meatals

07679-01

ANALYSIS

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

TCLP-PB

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 Metals	VOCs 8260	SVOCs 8270 w/ PAH only	PCBs, TPH, pH	Herbicides, Pesticides w/ Toxicphene	Conductivity, Flashpoint	Sulfide, Cyanide (Reactivity)	TCLP-PB	Sample Specific Comments	TOTAL # BOTTLES
~~07345~~ -01	MBTA West WM Stockpile S2	3/9/17	0800	Soil	JTB	☒	☒	☒	☒	☒	☒	☒	☒		
02	MBTA West WM Stockpile S1	3/9/17	0805	Soil	JTB	☒	☒	☒	☒	☒	☒	☒	☒		

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/17 12:45	Rob Maestro AAL	3/9/17 12:45
Rob Maestro AAL	3/9/17 18:25		3/9/17 18:25

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:	L1712318
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:	04/25/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1712318
Report Date: 04/25/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1712318-01	SHORELINE STOCKPILE #7A	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:00	04/19/17
L1712318-02	SHORELINE STOCKPILE #7B	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:10	04/19/17
L1712318-03	SHORELINE STOCKPILE #7C	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:20	04/19/17
L1712318-04	SHORELINE STOCKPILE #7D	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:30	04/19/17
L1712318-05	SHORELINE STOCKPILE #7E	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:40	04/19/17
L1712318-06	SHORELINE STOCKPILE #7F	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:50	04/19/17
L1712318-07	SHORELINE STOCKPILE #7G	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 11:00	04/19/17

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

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: L1712318
Report Date: 04/25/17

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:** L1712318
Project Number: 171521.52 **Report Date:** 04/25/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question G:

L1712318-01 through -07: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1712318-01 through -07, did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0699) and 4-methyl-2-pentanone (0.0790), as well as the average response factor for acetone, trichloroethene and 4-methyl-2-pentanone. The initial calibration verification is outside acceptance criteria for acetone (144%), but within overall method criteria. The continuing calibration standard, associated with L1712318-01 through -07, 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

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1712318-01 through -07: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question G:

L1712318-06: The sample has elevated detection limits due to the dilution required by the sample matrix. One

Project Name:	WYNN EVERETT	**Lab Number:**	L1712318
Project Number:	171521.52	**Report Date:**	04/25/17

Case Narrative (continued)

or more of the target analytes did not achieve the requested CAM reporting limits.

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: 04/25/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/23/17 14:07
Analyst: MV
Percent Solids: 86%

Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	440	--	1
1,1-Dichloroethane	ND		ug/kg	66	--	1
Chloroform	ND		ug/kg	66	--	1
Carbon tetrachloride	ND		ug/kg	44	--	1
1,2-Dichloropropane	ND		ug/kg	150	--	1
Dibromochloromethane	ND		ug/kg	44	--	1
1,1,2-Trichloroethane	ND		ug/kg	66	--	1
Tetrachloroethene	ND		ug/kg	44	--	1
Chlorobenzene	90		ug/kg	44	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	44	--	1
1,1,1-Trichloroethane	ND		ug/kg	44	--	1
Bromodichloromethane	ND		ug/kg	44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	44	--	1
cis-1,3-Dichloropropene	ND		ug/kg	44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	44	--	1
1,1-Dichloropropene	ND		ug/kg	180	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	44	--	1
Benzene	ND		ug/kg	44	--	1
Toluene	ND		ug/kg	66	--	1
Ethylbenzene	ND		ug/kg	44	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	88	--	1
Vinyl chloride	ND		ug/kg	88	--	1
Chloroethane	ND		ug/kg	88	--	1
1,1-Dichloroethene	ND		ug/kg	44	--	1
trans-1,2-Dichloroethene	ND		ug/kg	66	--	1
Trichloroethene	ND		ug/kg	44	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01 Date Collected: 04/19/17 10:00

Client ID: SHORELINE STOCKPILE #7A Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
Methyl tert butyl ether	ND		ug/kg	88	--	1
p/m-Xylene	ND		ug/kg	88	--	1
o-Xylene	ND		ug/kg	88	--	1
Xylenes, Total	ND		ug/kg	88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	44	--	1
1,2-Dichloroethene, Total	ND		ug/kg	44	--	1
Dibromomethane	ND		ug/kg	180	--	1
1,2,3-Trichloropropane	ND		ug/kg	180	--	1
Styrene	ND		ug/kg	88	--	1
Dichlorodifluoromethane	ND		ug/kg	440	--	1
Acetone	ND		ug/kg	1600	--	1
Carbon disulfide	ND		ug/kg	180	--	1
Methyl ethyl ketone	ND		ug/kg	440	--	1
Methyl isobutyl ketone	ND		ug/kg	440	--	1
2-Hexanone	ND		ug/kg	440	--	1
Bromochloromethane	ND		ug/kg	180	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	220	--	1
1,2-Dibromoethane	ND		ug/kg	180	--	1
1,3-Dichloropropane	ND		ug/kg	180	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	44	--	1
Bromobenzene	ND		ug/kg	220	--	1
n-Butylbenzene	ND		ug/kg	44	--	1
sec-Butylbenzene	ND		ug/kg	44	--	1
tert-Butylbenzene	ND		ug/kg	180	--	1
o-Chlorotoluene	ND		ug/kg	180	--	1
p-Chlorotoluene	ND		ug/kg	180	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	44	--	1
p-Isopropyltoluene	500		ug/kg	44	--	1
Naphthalene	820		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	44	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	180	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	180	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01 Date Collected: 04/19/17 10:00

Client ID: SHORELINE STOCKPILE #7A Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	220	--	1
Diisopropyl Ether	ND		ug/kg	180	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	180	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	180	--	1
1,4-Dioxane	ND		ug/kg	1800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	94		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/23/17 14:34
Analyst: MV
Percent Solids: 79%

Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	620	--	1
1,1-Dichloroethane	ND		ug/kg	92	--	1
Chloroform	ND		ug/kg	92	--	1
Carbon tetrachloride	ND		ug/kg	62	--	1
1,2-Dichloropropane	ND		ug/kg	220	--	1
Dibromochloromethane	ND		ug/kg	62	--	1
1,1,2-Trichloroethane	ND		ug/kg	92	--	1
Tetrachloroethene	ND		ug/kg	62	--	1
Chlorobenzene	110		ug/kg	62	--	1
Trichlorofluoromethane	ND		ug/kg	250	--	1
1,2-Dichloroethane	ND		ug/kg	62	--	1
1,1,1-Trichloroethane	ND		ug/kg	62	--	1
Bromodichloromethane	ND		ug/kg	62	--	1
trans-1,3-Dichloropropene	ND		ug/kg	62	--	1
cis-1,3-Dichloropropene	ND		ug/kg	62	--	1
1,3-Dichloropropene, Total	ND		ug/kg	62	--	1
1,1-Dichloropropene	ND		ug/kg	250	--	1
Bromoform	ND		ug/kg	250	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	62	--	1
Benzene	ND		ug/kg	62	--	1
Toluene	ND		ug/kg	92	--	1
Ethylbenzene	ND		ug/kg	62	--	1
Chloromethane	ND		ug/kg	250	--	1
Bromomethane	ND		ug/kg	120	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	120	--	1
1,1-Dichloroethene	ND		ug/kg	62	--	1
trans-1,2-Dichloroethene	ND		ug/kg	92	--	1
Trichloroethene	ND		ug/kg	62	--	1
1,2-Dichlorobenzene	ND		ug/kg	250	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02 Date Collected: 04/19/17 10:10

Client ID: SHORELINE STOCKPILE #7B Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	250	--	1
1,4-Dichlorobenzene	ND		ug/kg	250	--	1
Methyl tert butyl ether	ND		ug/kg	120	--	1
p/m-Xylene	ND		ug/kg	120	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	62	--	1
1,2-Dichloroethene, Total	ND		ug/kg	62	--	1
Dibromomethane	ND		ug/kg	250	--	1
1,2,3-Trichloropropane	ND		ug/kg	250	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	620	--	1
Acetone	ND		ug/kg	2200	--	1
Carbon disulfide	ND		ug/kg	250	--	1
Methyl ethyl ketone	ND		ug/kg	620	--	1
Methyl isobutyl ketone	ND		ug/kg	620	--	1
2-Hexanone	ND		ug/kg	620	--	1
Bromochloromethane	ND		ug/kg	250	--	1
Tetrahydrofuran	ND		ug/kg	250	--	1
2,2-Dichloropropane	ND		ug/kg	310	--	1
1,2-Dibromoethane	ND		ug/kg	250	--	1
1,3-Dichloropropane	ND		ug/kg	250	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	62	--	1
Bromobenzene	ND		ug/kg	310	--	1
n-Butylbenzene	ND		ug/kg	62	--	1
sec-Butylbenzene	ND		ug/kg	62	--	1
tert-Butylbenzene	ND		ug/kg	250	--	1
o-Chlorotoluene	ND		ug/kg	250	--	1
p-Chlorotoluene	ND		ug/kg	250	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	--	1
Hexachlorobutadiene	ND		ug/kg	250	--	1
Isopropylbenzene	ND		ug/kg	62	--	1
p-Isopropyltoluene	210		ug/kg	62	--	1
Naphthalene	470		ug/kg	250	--	1
n-Propylbenzene	ND		ug/kg	62	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	250	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	250	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	250	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	250	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02 Date Collected: 04/19/17 10:10

Client ID: SHORELINE STOCKPILE #7B Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	310	--	1
Diisopropyl Ether	ND		ug/kg	250	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	250	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	250	--	1
1,4-Dioxane	ND		ug/kg	2500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/23/17 15:00
Analyst: MV
Percent Solids: 79%

Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	460	--	1
1,1-Dichloroethane	ND		ug/kg	70	--	1
Chloroform	ND		ug/kg	70	--	1
Carbon tetrachloride	ND		ug/kg	46	--	1
1,2-Dichloropropane	ND		ug/kg	160	--	1
Dibromochloromethane	ND		ug/kg	46	--	1
1,1,2-Trichloroethane	ND		ug/kg	70	--	1
Tetrachloroethene	ND		ug/kg	46	--	1
Chlorobenzene	100		ug/kg	46	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	46	--	1
1,1,1-Trichloroethane	ND		ug/kg	46	--	1
Bromodichloromethane	ND		ug/kg	46	--	1
trans-1,3-Dichloropropene	ND		ug/kg	46	--	1
cis-1,3-Dichloropropene	ND		ug/kg	46	--	1
1,3-Dichloropropene, Total	ND		ug/kg	46	--	1
1,1-Dichloropropene	ND		ug/kg	180	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	46	--	1
Benzene	ND		ug/kg	46	--	1
Toluene	ND		ug/kg	70	--	1
Ethylbenzene	100		ug/kg	46	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	93	--	1
Vinyl chloride	ND		ug/kg	93	--	1
Chloroethane	ND		ug/kg	93	--	1
1,1-Dichloroethene	ND		ug/kg	46	--	1
trans-1,2-Dichloroethene	ND		ug/kg	70	--	1
Trichloroethene	ND		ug/kg	46	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03 Date Collected: 04/19/17 10:20

Client ID: SHORELINE STOCKPILE #7C Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
Methyl tert butyl ether	ND		ug/kg	93	--	1
p/m-Xylene	420		ug/kg	93	--	1
o-Xylene	230		ug/kg	93	--	1
Xylenes, Total	650		ug/kg	93	--	1
cis-1,2-Dichloroethene	ND		ug/kg	46	--	1
1,2-Dichloroethene, Total	ND		ug/kg	46	--	1
Dibromomethane	ND		ug/kg	180	--	1
1,2,3-Trichloropropane	ND		ug/kg	180	--	1
Styrene	ND		ug/kg	93	--	1
Dichlorodifluoromethane	ND		ug/kg	460	--	1
Acetone	ND		ug/kg	1700	--	1
Carbon disulfide	ND		ug/kg	180	--	1
Methyl ethyl ketone	ND		ug/kg	460	--	1
Methyl isobutyl ketone	ND		ug/kg	460	--	1
2-Hexanone	ND		ug/kg	460	--	1
Bromochloromethane	ND		ug/kg	180	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	230	--	1
1,2-Dibromoethane	ND		ug/kg	180	--	1
1,3-Dichloropropane	ND		ug/kg	180	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	46	--	1
Bromobenzene	ND		ug/kg	230	--	1
n-Butylbenzene	ND		ug/kg	46	--	1
sec-Butylbenzene	ND		ug/kg	46	--	1
tert-Butylbenzene	ND		ug/kg	180	--	1
o-Chlorotoluene	ND		ug/kg	180	--	1
p-Chlorotoluene	ND		ug/kg	180	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	46	--	1
p-Isopropyltoluene	570		ug/kg	46	--	1
Naphthalene	810		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	46	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	180	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	180	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	230	--	1
Diisopropyl Ether	ND		ug/kg	180	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	180	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	180	--	1
1,4-Dioxane	ND		ug/kg	1800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/23/17 15:26
Analyst: MV
Percent Solids: 73%

Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	510	--	1
1,1-Dichloroethane	ND		ug/kg	77	--	1
Chloroform	ND		ug/kg	77	--	1
Carbon tetrachloride	ND		ug/kg	51	--	1
1,2-Dichloropropane	ND		ug/kg	180	--	1
Dibromochloromethane	ND		ug/kg	51	--	1
1,1,2-Trichloroethane	ND		ug/kg	77	--	1
Tetrachloroethene	ND		ug/kg	51	--	1
Chlorobenzene	260		ug/kg	51	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	51	--	1
1,1,1-Trichloroethane	ND		ug/kg	51	--	1
Bromodichloromethane	ND		ug/kg	51	--	1
trans-1,3-Dichloropropene	ND		ug/kg	51	--	1
cis-1,3-Dichloropropene	ND		ug/kg	51	--	1
1,3-Dichloropropene, Total	ND		ug/kg	51	--	1
1,1-Dichloropropene	ND		ug/kg	200	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	51	--	1
Benzene	ND		ug/kg	51	--	1
Toluene	ND		ug/kg	77	--	1
Ethylbenzene	ND		ug/kg	51	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	100	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	51	--	1
trans-1,2-Dichloroethene	ND		ug/kg	77	--	1
Trichloroethene	ND		ug/kg	51	--	1
1,2-Dichlorobenzene	ND		ug/kg	200	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04 Date Collected: 04/19/17 10:30

Client ID: SHORELINE STOCKPILE #7D Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	200	--	1
1,4-Dichlorobenzene	ND		ug/kg	200	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	100	--	1
Xylenes, Total	ND		ug/kg	100	--	1
cis-1,2-Dichloroethene	ND		ug/kg	51	--	1
1,2-Dichloroethene, Total	ND		ug/kg	51	--	1
Dibromomethane	ND		ug/kg	200	--	1
1,2,3-Trichloropropane	ND		ug/kg	200	--	1
Styrene	ND		ug/kg	100	--	1
Dichlorodifluoromethane	ND		ug/kg	510	--	1
Acetone	ND		ug/kg	1800	--	1
Carbon disulfide	ND		ug/kg	200	--	1
Methyl ethyl ketone	ND		ug/kg	510	--	1
Methyl isobutyl ketone	ND		ug/kg	510	--	1
2-Hexanone	ND		ug/kg	510	--	1
Bromochloromethane	ND		ug/kg	200	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	260	--	1
1,2-Dibromoethane	ND		ug/kg	200	--	1
1,3-Dichloropropane	ND		ug/kg	200	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	51	--	1
Bromobenzene	ND		ug/kg	260	--	1
n-Butylbenzene	ND		ug/kg	51	--	1
sec-Butylbenzene	ND		ug/kg	51	--	1
tert-Butylbenzene	ND		ug/kg	200	--	1
o-Chlorotoluene	ND		ug/kg	200	--	1
p-Chlorotoluene	ND		ug/kg	200	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Isopropylbenzene	ND		ug/kg	51	--	1
p-Isopropyltoluene	770		ug/kg	51	--	1
Naphthalene	1300		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	51	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	200	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	200	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	200	--	1

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	260	--	1
Diisopropyl Ether	ND		ug/kg	200	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--	1
1,4-Dioxane	ND		ug/kg	2000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/23/17 16:19
Analyst: MV
Percent Solids: 80%

Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	560	--	1
1,1-Dichloroethane	ND		ug/kg	84	--	1
Chloroform	ND		ug/kg	84	--	1
Carbon tetrachloride	ND		ug/kg	56	--	1
1,2-Dichloropropane	ND		ug/kg	200	--	1
Dibromochloromethane	ND		ug/kg	56	--	1
1,1,2-Trichloroethane	ND		ug/kg	84	--	1
Tetrachloroethene	ND		ug/kg	56	--	1
Chlorobenzene	70		ug/kg	56	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	56	--	1
1,1,1-Trichloroethane	ND		ug/kg	56	--	1
Bromodichloromethane	ND		ug/kg	56	--	1
trans-1,3-Dichloropropene	ND		ug/kg	56	--	1
cis-1,3-Dichloropropene	ND		ug/kg	56	--	1
1,3-Dichloropropene, Total	ND		ug/kg	56	--	1
1,1-Dichloropropene	ND		ug/kg	220	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	56	--	1
Benzene	ND		ug/kg	56	--	1
Toluene	ND		ug/kg	84	--	1
Ethylbenzene	ND		ug/kg	56	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	110	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	56	--	1
trans-1,2-Dichloroethene	ND		ug/kg	84	--	1
Trichloroethene	ND		ug/kg	56	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05 Date Collected: 04/19/17 10:40

Client ID: SHORELINE STOCKPILE #7E Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	110	--	1
Xylenes, Total	ND		ug/kg	110	--	1
cis-1,2-Dichloroethene	ND		ug/kg	56	--	1
1,2-Dichloroethene, Total	ND		ug/kg	56	--	1
Dibromomethane	ND		ug/kg	220	--	1
1,2,3-Trichloropropane	ND		ug/kg	220	--	1
Styrene	ND		ug/kg	110	--	1
Dichlorodifluoromethane	ND		ug/kg	560	--	1
Acetone	ND		ug/kg	2000	--	1
Carbon disulfide	ND		ug/kg	220	--	1
Methyl ethyl ketone	ND		ug/kg	560	--	1
Methyl isobutyl ketone	ND		ug/kg	560	--	1
2-Hexanone	ND		ug/kg	560	--	1
Bromochloromethane	ND		ug/kg	220	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	280	--	1
1,2-Dibromoethane	ND		ug/kg	220	--	1
1,3-Dichloropropane	ND		ug/kg	220	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	56	--	1
Bromobenzene	ND		ug/kg	280	--	1
n-Butylbenzene	ND		ug/kg	56	--	1
sec-Butylbenzene	ND		ug/kg	56	--	1
tert-Butylbenzene	ND		ug/kg	220	--	1
o-Chlorotoluene	ND		ug/kg	220	--	1
p-Chlorotoluene	ND		ug/kg	220	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	56	--	1
p-Isopropyltoluene	170		ug/kg	56	--	1
Naphthalene	350		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	56	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	220	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	220	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	220	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05 Date Collected: 04/19/17 10:40

Client ID: SHORELINE STOCKPILE #7E Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	280	--	1
Diisopropyl Ether	ND		ug/kg	220	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	220	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	220	--	1
1,4-Dioxane	ND		ug/kg	2200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/23/17 15:53
Analyst: MV
Percent Solids: 83%

Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	450	--	1
1,1-Dichloroethane	ND		ug/kg	67	--	1
Chloroform	ND		ug/kg	67	--	1
Carbon tetrachloride	ND		ug/kg	45	--	1
1,2-Dichloropropane	ND		ug/kg	160	--	1
Dibromochloromethane	ND		ug/kg	45	--	1
1,1,2-Trichloroethane	ND		ug/kg	67	--	1
Tetrachloroethene	ND		ug/kg	45	--	1
Chlorobenzene	56		ug/kg	45	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	45	--	1
1,1,1-Trichloroethane	ND		ug/kg	45	--	1
Bromodichloromethane	ND		ug/kg	45	--	1
trans-1,3-Dichloropropene	ND		ug/kg	45	--	1
cis-1,3-Dichloropropene	ND		ug/kg	45	--	1
1,3-Dichloropropene, Total	ND		ug/kg	45	--	1
1,1-Dichloropropene	ND		ug/kg	180	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	45	--	1
Benzene	ND		ug/kg	45	--	1
Toluene	ND		ug/kg	67	--	1
Ethylbenzene	46		ug/kg	45	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	90	--	1
Vinyl chloride	ND		ug/kg	90	--	1
Chloroethane	ND		ug/kg	90	--	1
1,1-Dichloroethene	ND		ug/kg	45	--	1
trans-1,2-Dichloroethene	ND		ug/kg	67	--	1
Trichloroethene	ND		ug/kg	45	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06 Date Collected: 04/19/17 10:50

Client ID: SHORELINE STOCKPILE #7F Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
Methyl tert butyl ether	ND		ug/kg	90	--	1
p/m-Xylene	160		ug/kg	90	--	1
o-Xylene	110		ug/kg	90	--	1
Xylenes, Total	270		ug/kg	90	--	1
cis-1,2-Dichloroethene	ND		ug/kg	45	--	1
1,2-Dichloroethene, Total	ND		ug/kg	45	--	1
Dibromomethane	ND		ug/kg	180	--	1
1,2,3-Trichloropropane	ND		ug/kg	180	--	1
Styrene	ND		ug/kg	90	--	1
Dichlorodifluoromethane	ND		ug/kg	450	--	1
Acetone	ND		ug/kg	1600	--	1
Carbon disulfide	ND		ug/kg	180	--	1
Methyl ethyl ketone	ND		ug/kg	450	--	1
Methyl isobutyl ketone	ND		ug/kg	450	--	1
2-Hexanone	ND		ug/kg	450	--	1
Bromochloromethane	ND		ug/kg	180	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	220	--	1
1,2-Dibromoethane	ND		ug/kg	180	--	1
1,3-Dichloropropane	ND		ug/kg	180	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	45	--	1
Bromobenzene	ND		ug/kg	220	--	1
n-Butylbenzene	ND		ug/kg	45	--	1
sec-Butylbenzene	ND		ug/kg	45	--	1
tert-Butylbenzene	ND		ug/kg	180	--	1
o-Chlorotoluene	ND		ug/kg	180	--	1
p-Chlorotoluene	ND		ug/kg	180	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	45	--	1
p-Isopropyltoluene	340		ug/kg	45	--	1
Naphthalene	400		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	45	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	180	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	180	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	180	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06 Date Collected: 04/19/17 10:50

Client ID: SHORELINE STOCKPILE #7F Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	220	--	1
Diisopropyl Ether	ND		ug/kg	180	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	180	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	180	--	1
1,4-Dioxane	ND		ug/kg	1800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/23/17 16:46
Analyst: MV
Percent Solids: 85%

Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	570	--	1
1,1-Dichloroethane	ND		ug/kg	86	--	1
Chloroform	ND		ug/kg	86	--	1
Carbon tetrachloride	ND		ug/kg	57	--	1
1,2-Dichloropropane	ND		ug/kg	200	--	1
Dibromochloromethane	ND		ug/kg	57	--	1
1,1,2-Trichloroethane	ND		ug/kg	86	--	1
Tetrachloroethene	ND		ug/kg	57	--	1
Chlorobenzene	ND		ug/kg	57	--	1
Trichlorofluoromethane	ND		ug/kg	230	--	1
1,2-Dichloroethane	ND		ug/kg	57	--	1
1,1,1-Trichloroethane	ND		ug/kg	57	--	1
Bromodichloromethane	ND		ug/kg	57	--	1
trans-1,3-Dichloropropene	ND		ug/kg	57	--	1
cis-1,3-Dichloropropene	ND		ug/kg	57	--	1
1,3-Dichloropropene, Total	ND		ug/kg	57	--	1
1,1-Dichloropropene	ND		ug/kg	230	--	1
Bromoform	ND		ug/kg	230	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	57	--	1
Benzene	ND		ug/kg	57	--	1
Toluene	ND		ug/kg	86	--	1
Ethylbenzene	77		ug/kg	57	--	1
Chloromethane	ND		ug/kg	230	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	110	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	57	--	1
trans-1,2-Dichloroethene	ND		ug/kg	86	--	1
Trichloroethene	ND		ug/kg	57	--	1
1,2-Dichlorobenzene	ND		ug/kg	230	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07 Date Collected: 04/19/17 11:00

Client ID: SHORELINE STOCKPILE #7G Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	230	--	1
1,4-Dichlorobenzene	ND		ug/kg	230	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	280		ug/kg	110	--	1
o-Xylene	ND		ug/kg	110	--	1
Xylenes, Total	280		ug/kg	110	--	1
cis-1,2-Dichloroethene	ND		ug/kg	57	--	1
1,2-Dichloroethene, Total	ND		ug/kg	57	--	1
Dibromomethane	ND		ug/kg	230	--	1
1,2,3-Trichloropropane	ND		ug/kg	230	--	1
Styrene	ND		ug/kg	110	--	1
Dichlorodifluoromethane	ND		ug/kg	570	--	1
Acetone	ND		ug/kg	2000	--	1
Carbon disulfide	ND		ug/kg	230	--	1
Methyl ethyl ketone	ND		ug/kg	570	--	1
Methyl isobutyl ketone	ND		ug/kg	570	--	1
2-Hexanone	ND		ug/kg	570	--	1
Bromochloromethane	ND		ug/kg	230	--	1
Tetrahydrofuran	ND		ug/kg	230	--	1
2,2-Dichloropropane	ND		ug/kg	280	--	1
1,2-Dibromoethane	ND		ug/kg	230	--	1
1,3-Dichloropropane	ND		ug/kg	230	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	57	--	1
Bromobenzene	ND		ug/kg	280	--	1
n-Butylbenzene	ND		ug/kg	57	--	1
sec-Butylbenzene	ND		ug/kg	57	--	1
tert-Butylbenzene	ND		ug/kg	230	--	1
o-Chlorotoluene	ND		ug/kg	230	--	1
p-Chlorotoluene	ND		ug/kg	230	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	230	--	1
Isopropylbenzene	ND		ug/kg	57	--	1
p-Isopropyltoluene	ND		ug/kg	57	--	1
Naphthalene	320		ug/kg	230	--	1
n-Propylbenzene	ND		ug/kg	57	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	230	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	230	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	230	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07 Date Collected: 04/19/17 11:00

Client ID: SHORELINE STOCKPILE #7G Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	280	--	1
Diisopropyl Ether	ND		ug/kg	230	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	230	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	230	--	1
1,4-Dioxane	ND		ug/kg	2300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/23/17 10:36
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-07 Batch: WG996941-5					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/23/17 10:36
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-07 Batch: WG996941-5					
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/23/17 10:36
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-07 Batch: WG996941-5					
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Diethyl ether	ND		ug/kg	250	--
Diisopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	2000	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Halothane	ND		ug/kg	2000	--
Ethyl Acetate	ND		ug/kg	1000	--
Freon-113	ND		ug/kg	1000	--
Vinyl acetate	ND		ug/kg	500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-07 Batch: WG996941-3 WG996941-4								
Methylene chloride	104		111		70-130	7		20
1,1-Dichloroethane	104		103		70-130	1		20
Chloroform	103		104		70-130	1		20
Carbon tetrachloride	109		108		70-130	1		20
1,2-Dichloropropane	103		102		70-130	1		20
Dibromochloromethane	99		99		70-130	0		20
1,1,2-Trichloroethane	102		105		70-130	3		20
Tetrachloroethene	101		99		70-130	2		20
Chlorobenzene	102		101		70-130	1		20
Trichlorofluoromethane	110		108		70-130	2		20
1,2-Dichloroethane	102		102		70-130	0		20
1,1,1-Trichloroethane	107		106		70-130	1		20
Bromodichloromethane	99		100		70-130	1		20
trans-1,3-Dichloropropene	100		101		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	109		106		70-130	3		20
Bromoform	98		100		70-130	2		20
1,1,2,2-Tetrachloroethane	104		105		70-130	1		20
Benzene	104		103		70-130	1		20
Toluene	103		101		70-130	2		20
Ethylbenzene	104		102		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-07 Batch: WG996941-3 WG996941-4								
Chloromethane	100		98		70-130	2		20
Bromomethane	108		102		70-130	6		20
Vinyl chloride	106		103		70-130	3		20
Chloroethane	111		110		70-130	1		20
1,1-Dichloroethene	122		88		70-130	**32**	Q	20
trans-1,2-Dichloroethene	106		104		70-130	2		20
Trichloroethene	105		103		70-130	2		20
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	98		97		70-130	1		20
Methyl tert butyl ether	102		105		70-130	3		20
p/m-Xylene	107		105		70-130	2		20
o-Xylene	107		104		70-130	3		20
cis-1,2-Dichloroethene	103		102		70-130	1		20
Dibromomethane	103		103		70-130	0		20
1,2,3-Trichloropropane	105		106		70-130	1		20
Styrene	105		104		70-130	1		20
Dichlorodifluoromethane	112		108		70-130	4		20
Acetone	108		109		70-130	1		20
Carbon disulfide	95		**63**	Q	70-130	**41**	Q	20
Methyl ethyl ketone	96		100		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-07 Batch: WG996941-3 WG996941-4								
Methyl isobutyl ketone	99		102		70-130	3		20
2-Hexanone	99		101		70-130	2		20
Bromochloromethane	105		105		70-130	0		20
Tetrahydrofuran	105		110		70-130	5		20
2,2-Dichloropropane	107		106		70-130	1		20
1,2-Dibromoethane	101		103		70-130	2		20
1,3-Dichloropropane	103		103		70-130	0		20
1,1,1,2-Tetrachloroethane	101		102		70-130	1		20
Bromobenzene	98		98		70-130	0		20
n-Butylbenzene	107		106		70-130	1		20
sec-Butylbenzene	108		106		70-130	2		20
tert-Butylbenzene	107		104		70-130	3		20
o-Chlorotoluene	101		99		70-130	2		20
p-Chlorotoluene	102		101		70-130	1		20
1,2-Dibromo-3-chloropropane	102		102		70-130	0		20
Hexachlorobutadiene	101		99		70-130	2		20
Isopropylbenzene	106		104		70-130	2		20
p-Isopropyltoluene	107		104		70-130	3		20
Naphthalene	98		102		70-130	4		20
n-Propylbenzene	106		104		70-130	2		20
1,2,3-Trichlorobenzene	96		99		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-07 Batch: WG996941-3 WG996941-4								
1,2,4-Trichlorobenzene	97		97		70-130	0		20
1,3,5-Trimethylbenzene	107		104		70-130	3		20
1,2,4-Trimethylbenzene	105		103		70-130	2		20
Diethyl ether	102		106		70-130	4		20
Diisopropyl Ether	99		98		70-130	1		20
Ethyl-Tert-Butyl-Ether	103		105		70-130	2		20
Tertiary-Amyl Methyl Ether	104		108		70-130	4		20
1,4-Dioxane	111		115		70-130	4		20
2-Chloroethylvinyl ether	86		96		70-130	11		20
Halothane	104		104		70-130	0		20
Ethyl Acetate	106		109		70-130	3		20
Freon-113	120		86		70-130	**33**	Q	20
Vinyl acetate	106		109		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/22/17 23:17
Analyst: PS
Percent Solids: 86%

Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	470		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	3500		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	450		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	2700		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	1400		ug/kg	120	--	1
Benzo(a)pyrene	1200		ug/kg	160	--	1
Benzo(b)fluoranthene	1600		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01 Date Collected: 04/19/17 10:00

Client ID: SHORELINE STOCKPILE #7A Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	560		ug/kg	120	--	1
Chrysene	1300		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	900		ug/kg	120	--	1
Benzo(ghi)perylene	590		ug/kg	160	--	1
Fluorene	380		ug/kg	190	--	1
Phenanthrene	2600		ug/kg	120	--	1
Dibenzo(a,h)anthracene	170		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	750		ug/kg	160	--	1
Pyrene	2600		ug/kg	120	--	1
Aniline	ND		ug/kg	230	--	1
4-Chloroaniline	ND		ug/kg	190	--	1
Dibenzofuran	220		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		30-130
Phenol-d6	69		30-130
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	68		30-130
2,4,6-Tribromophenol	75		30-130
4-Terphenyl-d14	64		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/22/17 23:42
Analyst: PS
Percent Solids: 79%

Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	360		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	3000		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	350		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	1700		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	1200		ug/kg	120	--	1
Benzo(a)pyrene	1000		ug/kg	170	--	1
Benzo(b)fluoranthene	1400		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02 Date Collected: 04/19/17 10:10

Client ID: SHORELINE STOCKPILE #7B Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	490		ug/kg	120	--	1
Chrysene	1100		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	720		ug/kg	120	--	1
Benzo(ghi)perylene	500		ug/kg	170	--	1
Fluorene	320		ug/kg	210	--	1
Phenanthrene	2300		ug/kg	120	--	1
Dibenzo(a,h)anthracene	140		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	600		ug/kg	170	--	1
Pyrene	2300		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	67		30-130
2,4,6-Tribromophenol	73		30-130
4-Terphenyl-d14	65		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/23/17 00:07
Analyst: PS
Percent Solids: 79%

Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	1100		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	1700		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	490		ug/kg	120	--	1
Benzo(a)pyrene	410		ug/kg	170	--	1
Benzo(b)fluoranthene	580		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03 Date Collected: 04/19/17 10:20

Client ID: SHORELINE STOCKPILE #7C Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	220		ug/kg	120	--	1
Chrysene	430		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	220		ug/kg	120	--	1
Benzo(ghi)perylene	220		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	640		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	260		ug/kg	170	--	1
Pyrene	860		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		30-130
Phenol-d6	91		30-130
Nitrobenzene-d5	91		30-130
2-Fluorobiphenyl	85		30-130
2,4,6-Tribromophenol	95		30-130
4-Terphenyl-d14	81		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/23/17 00:33
Analyst: PS
Percent Solids: 73%

Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	370		ug/kg	180	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	2300		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	450		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	3300		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	950		ug/kg	130	--	1
Benzo(a)pyrene	780		ug/kg	180	--	1
Benzo(b)fluoranthene	1000		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04 Date Collected: 04/19/17 10:30

Client ID: SHORELINE STOCKPILE #7D Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	330		ug/kg	130	--	1
Chrysene	860		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	690		ug/kg	130	--	1
Benzo(ghi)perylene	420		ug/kg	180	--	1
Fluorene	420		ug/kg	220	--	1
Phenanthrene	2400		ug/kg	130	--	1
Dibenzo(a,h)anthracene	130		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	480		ug/kg	180	--	1
Pyrene	1800		ug/kg	130	--	1
Aniline	ND		ug/kg	270	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	300		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	270	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	480	--	1
4-Nitrophenol	ND		ug/kg	310	--	1
2,4-Dinitrophenol	ND		ug/kg	1100	--	1
Pentachlorophenol	ND		ug/kg	450	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		30-130
Phenol-d6	89		30-130
Nitrobenzene-d5	89		30-130
2-Fluorobiphenyl	83		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	81		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/23/17 06:52
Analyst: PS
Percent Solids: 80%

Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	1200		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	3700		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	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	1600		ug/kg	200	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	1600		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	970		ug/kg	120	--	1
Benzo(a)pyrene	640		ug/kg	160	--	1
Benzo(b)fluoranthene	910		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05 Date Collected: 04/19/17 10:40

Client ID: SHORELINE STOCKPILE #7E Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	300		ug/kg	120	--	1
Chrysene	920		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	1300		ug/kg	120	--	1
Benzo(ghi)perylene	310		ug/kg	160	--	1
Fluorene	1000		ug/kg	200	--	1
Phenanthrene	4200		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	380		ug/kg	160	--	1
Pyrene	2600		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	200	--	1
Dibenzofuran	600		ug/kg	200	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	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	290	--	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	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		30-130
Phenol-d6	80		30-130
Nitrobenzene-d5	77		30-130
2-Fluorobiphenyl	75		30-130
2,4,6-Tribromophenol	82		30-130
4-Terphenyl-d14	77		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/23/17 06:27
Analyst: PS
Percent Solids: 83%

Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	170		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	1800		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	210	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Hexachloroethane	ND		ug/kg	160	--	1
Isophorone	ND		ug/kg	180	--	1
Naphthalene	210		ug/kg	200	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	2000		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	760		ug/kg	120	--	1
Benzo(a)pyrene	670		ug/kg	160	--	1
Benzo(b)fluoranthene	970		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06 Date Collected: 04/19/17 10:50

Client ID: SHORELINE STOCKPILE #7F Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	290		ug/kg	120	--	1
Chrysene	720		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	380		ug/kg	120	--	1
Benzo(ghi)perylene	360		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	1100		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	410		ug/kg	160	--	1
Pyrene	1400		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	950	--	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	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		30-130
Phenol-d6	79		30-130
Nitrobenzene-d5	76		30-130
2-Fluorobiphenyl	74		30-130
2,4,6-Tribromophenol	84		30-130
4-Terphenyl-d14	70		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/23/17 00:58
Analyst: PS
Percent Solids: 85%

Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:55

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	900		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	220		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	1700		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	400		ug/kg	120	--	1
Benzo(a)pyrene	340		ug/kg	150	--	1
Benzo(b)fluoranthene	430		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712318

Project Number: 171521.52 **Report Date:** 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07 Date Collected: 04/19/17 11:00

Client ID: SHORELINE STOCKPILE #7G Date Received: 04/19/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	160		ug/kg	120	--	1
Chrysene	380		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	210		ug/kg	120	--	1
Benzo(ghi)perylene	180		ug/kg	150	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	750		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	150	--	1
Pyrene	710		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	410	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		30-130
Phenol-d6	53		30-130
Nitrobenzene-d5	47		30-130
2-Fluorobiphenyl	57		30-130
2,4,6-Tribromophenol	65		30-130
4-Terphenyl-d14	58		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 04/19/17 20:45
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/19/17 09:43

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-07 Batch: WG995540-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 04/19/17 20:45
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/19/17 09:43

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-07 Batch: WG995540-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 04/19/17 20:45
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/19/17 09:43

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-07 Batch: WG995540-1					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		30-130
Phenol-d6	54		30-130
Nitrobenzene-d5	50		30-130
2-Fluorobiphenyl	54		30-130
2,4,6-Tribromophenol	50		30-130
4-Terphenyl-d14	61		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-07 Batch: WG995540-2 WG995540-3								
Acenaphthene	61		67		40-140	9		30
1,2,4-Trichlorobenzene	60		66		40-140	10		30
Hexachlorobenzene	65		70		40-140	7		30
Bis(2-chloroethyl)ether	56		62		40-140	10		30
2-Chloronaphthalene	60		65		40-140	8		30
1,2-Dichlorobenzene	58		63		40-140	8		30
1,3-Dichlorobenzene	58		62		40-140	7		30
1,4-Dichlorobenzene	57		63		40-140	10		30
3,3'-Dichlorobenzidine	42		46		40-140	9		30
2,4-Dinitrotoluene	70		76		40-140	8		30
2,6-Dinitrotoluene	69		74		40-140	7		30
Azobenzene	64		68		40-140	6		30
Fluoranthene	67		72		40-140	7		30
4-Bromophenyl phenyl ether	62		68		40-140	9		30
Bis(2-chloroisopropyl)ether	62		67		40-140	8		30
Bis(2-chloroethoxy)methane	60		66		40-140	10		30
Hexachlorobutadiene	62		67		40-140	8		30
Hexachloroethane	60		65		40-140	8		30
Isophorone	64		70		40-140	9		30
Naphthalene	60		66		40-140	10		30
Nitrobenzene	61		65		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-07 Batch: WG995540-2 WG995540-3								
Bis(2-ethylhexyl)phthalate	68		76		40-140	11		30
Butyl benzyl phthalate	75		80		40-140	6		30
Di-n-butylphthalate	72		78		40-140	8		30
Di-n-octylphthalate	69		75		40-140	8		30
Diethyl phthalate	64		70		40-140	9		30
Dimethyl phthalate	65		70		40-140	7		30
Benzo(a)anthracene	63		68		40-140	8		30
Benzo(a)pyrene	70		76		40-140	8		30
Benzo(b)fluoranthene	65		70		40-140	7		30
Benzo(k)fluoranthene	66		72		40-140	9		30
Chrysene	60		66		40-140	10		30
Acenaphthylene	65		71		40-140	9		30
Anthracene	67		72		40-140	7		30
Benzo(ghi)perylene	63		69		40-140	9		30
Fluorene	64		69		40-140	8		30
Phenanthrene	62		67		40-140	8		30
Dibenzo(a,h)anthracene	64		69		40-140	8		30
Indeno(1,2,3-cd)pyrene	56		61		40-140	9		30
Pyrene	67		72		40-140	7		30
Aniline	**39**	Q	43		40-140	10		30
4-Chloroaniline	40		49		40-140	20		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-07 Batch: WG995540-2 WG995540-3								
Dibenzofuran	61		68		40-140	11		30
2-Methylnaphthalene	61		66		40-140	8		30
Acetophenone	65		70		40-140	7		30
2,4,6-Trichlorophenol	66		72		30-130	9		30
2-Chlorophenol	63		68		30-130	8		30
2,4-Dichlorophenol	66		72		30-130	9		30
2,4-Dimethylphenol	75		82		30-130	9		30
2-Nitrophenol	66		74		30-130	11		30
4-Nitrophenol	58		63		30-130	8		30
2,4-Dinitrophenol	34		44		30-130	26		30
Pentachlorophenol	48		51		30-130	6		30
Phenol	62		67		30-130	8		30
2-Methylphenol	66		72		30-130	9		30
3-Methylphenol/4-Methylphenol	60		64		30-130	6		30
2,4,5-Trichlorophenol	68		72		30-130	6		30
Pyridine	47		52		30-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-07 Batch: WG995540-2 WG995540-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		66		30-130
Phenol-d6	64		69		30-130
Nitrobenzene-d5	64		68		30-130
2-Fluorobiphenyl	62		68		30-130
2,4,6-Tribromophenol	61		65		30-130
4-Terphenyl-d14	68		73		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/20/17 18:00
Analyst: DG
Percent Solids: 86%

Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 02:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	535000		ug/kg	37800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/20/17 18:36
Analyst: DG
Percent Solids: 79%

Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 02:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	292000		ug/kg	41200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/20/17 19:13
Analyst: DG
Percent Solids: 79%

Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 02:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	431000		ug/kg	41900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		40-140

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/20/17 19:49
Analyst: DG
Percent Solids: 73%

Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 02:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	465000		ug/kg	44000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/20/17 20:26
Analyst: DG
Percent Solids: 80%

Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 02:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	220000		ug/kg	40400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06 D
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/24/17 13:46
Analyst: DG
Percent Solids: 83%

Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 02:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	1680000		ug/kg	194000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	108		40-140

Project Name: WYNN EVERETT
Lab Number: L1712318
Project Number: 171521.52
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/21/17 01:49
Analyst: DG
Percent Solids: 85%

Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 02:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	201000		ug/kg	37400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	61		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 04/20/17 22:48
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 04/19/17 12:01

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-07 Batch: WG995610-1					
TPH	ND		ug/kg	31800	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	71		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-07 Batch: WG995610-2								
TPH	63		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	67				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/20/17 21:36
Analyst: HT
Percent Solids: 86%

Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 01:40
Cleanup Method: EPA 3665A
Cleanup Date: 04/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	--	1	A
Aroclor 1221	ND		ug/kg	37.4	--	1	A
Aroclor 1232	ND		ug/kg	37.4	--	1	A
Aroclor 1242	ND		ug/kg	37.4	--	1	A
Aroclor 1248	ND		ug/kg	37.4	--	1	A
Aroclor 1254	115		ug/kg	37.4	--	1	B
Aroclor 1260	51.6		ug/kg	37.4	--	1	B
Aroclor 1262	ND		ug/kg	37.4	--	1	A
Aroclor 1268	ND		ug/kg	37.4	--	1	A
PCBs, Total	167		ug/kg	37.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/20/17 21:49
Analyst: HT
Percent Solids: 79%

Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 01:40
Cleanup Method: EPA 3665A
Cleanup Date: 04/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.0	--	1	A
Aroclor 1221	ND		ug/kg	42.0	--	1	A
Aroclor 1232	ND		ug/kg	42.0	--	1	A
Aroclor 1242	ND		ug/kg	42.0	--	1	A
Aroclor 1248	ND		ug/kg	42.0	--	1	A
Aroclor 1254	87.6		ug/kg	42.0	--	1	A
Aroclor 1260	61.2		ug/kg	42.0	--	1	B
Aroclor 1262	ND		ug/kg	42.0	--	1	A
Aroclor 1268	ND		ug/kg	42.0	--	1	A
PCBs, Total	149		ug/kg	42.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID:	L1712318-03	Date Collected:	04/19/17 10:20
Client ID:	SHORELINE STOCKPILE #7C	Date Received:	04/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	04/20/17 01:40
Analytical Date:	04/20/17 22:01	Cleanup Method:	EPA 3665A
Analyst:	HT	Cleanup Date:	04/20/17
Percent Solids:	79%	Cleanup Method:	EPA 3660B
		Cleanup Date:	04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.8	--	1	A
Aroclor 1221	ND		ug/kg	41.8	--	1	A
Aroclor 1232	ND		ug/kg	41.8	--	1	A
Aroclor 1242	ND		ug/kg	41.8	--	1	A
Aroclor 1248	ND		ug/kg	41.8	--	1	A
Aroclor 1254	54.0		ug/kg	41.8	--	1	B
Aroclor 1260	ND		ug/kg	41.8	--	1	B
Aroclor 1262	ND		ug/kg	41.8	--	1	A
Aroclor 1268	ND		ug/kg	41.8	--	1	A
PCBs, Total	54.0		ug/kg	41.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/20/17 22:14
Analyst: HT
Percent Solids: 73%

Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 01:40
Cleanup Method: EPA 3665A
Cleanup Date: 04/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.2	--	1	A
Aroclor 1221	ND		ug/kg	45.2	--	1	A
Aroclor 1232	ND		ug/kg	45.2	--	1	A
Aroclor 1242	ND		ug/kg	45.2	--	1	A
Aroclor 1248	ND		ug/kg	45.2	--	1	A
Aroclor 1254	47.0		ug/kg	45.2	--	1	B
Aroclor 1260	ND		ug/kg	45.2	--	1	B
Aroclor 1262	ND		ug/kg	45.2	--	1	A
Aroclor 1268	ND		ug/kg	45.2	--	1	A
PCBs, Total	47.0		ug/kg	45.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/20/17 22:27
Analyst: HT
Percent Solids: 80%

Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 01:40
Cleanup Method: EPA 3665A
Cleanup Date: 04/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	--	1	A
Aroclor 1221	ND		ug/kg	40.4	--	1	A
Aroclor 1232	ND		ug/kg	40.4	--	1	A
Aroclor 1242	ND		ug/kg	40.4	--	1	A
Aroclor 1248	ND		ug/kg	40.4	--	1	A
Aroclor 1254	ND		ug/kg	40.4	--	1	A
Aroclor 1260	ND		ug/kg	40.4	--	1	A
Aroclor 1262	ND		ug/kg	40.4	--	1	A
Aroclor 1268	ND		ug/kg	40.4	--	1	A
PCBs, Total	ND		ug/kg	40.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/20/17 22:39
Analyst: HT
Percent Solids: 83%

Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 01:40
Cleanup Method: EPA 3665A
Cleanup Date: 04/20/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	--	1	A
Aroclor 1221	ND		ug/kg	38.3	--	1	A
Aroclor 1232	ND		ug/kg	38.3	--	1	A
Aroclor 1242	ND		ug/kg	38.3	--	1	A
Aroclor 1248	ND		ug/kg	38.3	--	1	A
Aroclor 1254	130		ug/kg	38.3	--	1	A
Aroclor 1260	66.4		ug/kg	38.3	--	1	B
Aroclor 1262	ND		ug/kg	38.3	--	1	A
Aroclor 1268	ND		ug/kg	38.3	--	1	A
PCBs, Total	196		ug/kg	38.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID:	L1712318-07	Date Collected:	04/19/17 11:00
Client ID:	SHORELINE STOCKPILE #7G	Date Received:	04/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	97,8082A	Extraction Date:	04/20/17 01:40
Analytical Date:	04/20/17 22:52	Cleanup Method:	EPA 3665A
Analyst:	HT	Cleanup Date:	04/20/17
Percent Solids:	85%	Cleanup Method:	EPA 3660B
		Cleanup Date:	04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	91.7		ug/kg	38.0	--	1	B
Aroclor 1260	52.0		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	144		ug/kg	38.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 04/20/17 20:22
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 04/19/17 10:32
Cleanup Method: EPA 3665A
Cleanup Date: 04/19/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-07 Batch: WG995572-1						
Aroclor 1016	ND		ug/kg	31.4	--	A
Aroclor 1221	ND		ug/kg	31.4	--	A
Aroclor 1232	ND		ug/kg	31.4	--	A
Aroclor 1242	ND		ug/kg	31.4	--	A
Aroclor 1248	ND		ug/kg	31.4	--	A
Aroclor 1254	ND		ug/kg	31.4	--	A
Aroclor 1260	ND		ug/kg	31.4	--	A
Aroclor 1262	ND		ug/kg	31.4	--	A
Aroclor 1268	ND		ug/kg	31.4	--	A
PCBs, Total	ND		ug/kg	31.4	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	81		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-07 Batch: WG995572-2 WG995572-3									
Aroclor 1016	85		81		40-140	5		30	A
Aroclor 1260	70		70		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		102		30-150	A
Decachlorobiphenyl	78		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		94		30-150	B
Decachlorobiphenyl	85		76		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/25/17 12:37
Analyst: DM
Percent Solids: 86%

Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:56
Cleanup Method: EPA 3620B
Cleanup Date: 04/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.93	--	1	A
Lindane	ND		ug/kg	2.98	--	1	A
Alpha-BHC	ND		ug/kg	3.72	--	1	A
Beta-BHC	ND		ug/kg	8.93	--	1	A
Heptachlor	ND		ug/kg	4.47	--	1	A
Aldrin	ND		ug/kg	8.93	--	1	A
Heptachlor epoxide	ND		ug/kg	16.8	--	1	A
Endrin	ND		ug/kg	3.72	--	1	A
Endrin ketone	ND		ug/kg	8.93	--	1	A
Dieldrin	ND		ug/kg	5.58	--	1	A
4,4'-DDE	ND		ug/kg	8.93	--	1	A
4,4'-DDD	ND		ug/kg	8.93	--	1	A
4,4'-DDT	ND		ug/kg	16.8	--	1	A
Endosulfan I	ND		ug/kg	8.93	--	1	A
Endosulfan II	ND		ug/kg	8.93	--	1	A
Endosulfan sulfate	ND		ug/kg	3.72	--	1	A
Methoxychlor	ND		ug/kg	16.8	--	1	A
Chlordane	ND		ug/kg	72.6	--	1	A
Hexachlorobenzene	ND		ug/kg	8.93	--	1	A
Toxaphene	ND		ug/kg	168	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/22/17 19:20
Analyst: DM
Percent Solids: 86%
Methylation Date: 04/21/17 20:11

Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	80		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/25/17 12:50
Analyst: DM
Percent Solids: 79%

Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:56
Cleanup Method: EPA 3620B
Cleanup Date: 04/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.93	--	1	A
Lindane	ND		ug/kg	3.31	--	1	A
Alpha-BHC	ND		ug/kg	4.14	--	1	A
Beta-BHC	ND		ug/kg	9.93	--	1	A
Heptachlor	ND		ug/kg	4.96	--	1	A
Aldrin	ND		ug/kg	9.93	--	1	A
Heptachlor epoxide	ND		ug/kg	18.6	--	1	A
Endrin	ND		ug/kg	4.14	--	1	A
Endrin ketone	ND		ug/kg	9.93	--	1	A
Dieldrin	ND		ug/kg	6.20	--	1	A
4,4'-DDE	ND		ug/kg	9.93	--	1	A
4,4'-DDD	ND		ug/kg	9.93	--	1	A
4,4'-DDT	ND		ug/kg	18.6	--	1	A
Endosulfan I	ND		ug/kg	9.93	--	1	A
Endosulfan II	ND		ug/kg	9.93	--	1	A
Endosulfan sulfate	ND		ug/kg	4.14	--	1	A
Methoxychlor	ND		ug/kg	18.6	--	1	A
Chlordane	ND		ug/kg	80.7	--	1	A
Hexachlorobenzene	ND		ug/kg	9.93	--	1	A
Toxaphene	ND		ug/kg	186	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/22/17 19:40
Analyst: DM
Percent Solids: 79%
Methylation Date: 04/21/17 20:11

Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4200	--	1	A
MCPA	ND		ug/kg	4200	--	1	A
Dalapon	ND		ug/kg	42	--	1	A
Dicamba	ND		ug/kg	42	--	1	A
Dichloroprop	ND		ug/kg	42	--	1	A
2,4-D	ND		ug/kg	42	--	1	A
2,4-DB	ND		ug/kg	42	--	1	A
2,4,5-T	ND		ug/kg	42	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	42	--	1	A
Dinoseb	ND		ug/kg	42	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	64		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/25/17 13:02
Analyst: DM
Percent Solids: 79%

Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:56
Cleanup Method: EPA 3620B
Cleanup Date: 04/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.99	--	1	A
Lindane	ND		ug/kg	3.33	--	1	A
Alpha-BHC	ND		ug/kg	4.16	--	1	A
Beta-BHC	ND		ug/kg	9.99	--	1	A
Heptachlor	ND		ug/kg	4.99	--	1	A
Aldrin	ND		ug/kg	9.99	--	1	A
Heptachlor epoxide	ND		ug/kg	18.7	--	1	A
Endrin	ND		ug/kg	4.16	--	1	A
Endrin ketone	ND		ug/kg	9.99	--	1	A
Dieldrin	ND		ug/kg	6.24	--	1	A
4,4'-DDE	ND		ug/kg	9.99	--	1	A
4,4'-DDD	ND		ug/kg	9.99	--	1	A
4,4'-DDT	ND		ug/kg	18.7	--	1	A
Endosulfan I	ND		ug/kg	9.99	--	1	A
Endosulfan II	ND		ug/kg	9.99	--	1	A
Endosulfan sulfate	ND		ug/kg	4.16	--	1	A
Methoxychlor	ND		ug/kg	18.7	--	1	A
Chlordane	ND		ug/kg	81.1	--	1	A
Hexachlorobenzene	ND		ug/kg	9.99	--	1	A
Toxaphene	ND		ug/kg	187	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	72		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/22/17 19:59
Analyst: DM
Percent Solids: 79%
Methylation Date: 04/21/17 20:11

Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4100	--	1	A
MCPA	ND		ug/kg	4100	--	1	A
Dalapon	ND		ug/kg	41	--	1	A
Dicamba	ND		ug/kg	41	--	1	A
Dichloroprop	ND		ug/kg	41	--	1	A
2,4-D	ND		ug/kg	41	--	1	A
2,4-DB	ND		ug/kg	41	--	1	A
2,4,5-T	ND		ug/kg	41	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	41	--	1	A
Dinoseb	ND		ug/kg	41	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	A
DCAA	77		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/25/17 13:15
Analyst: DM
Percent Solids: 73%

Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:56
Cleanup Method: EPA 3620B
Cleanup Date: 04/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.8	--	1	A
Lindane	ND		ug/kg	3.59	--	1	A
Alpha-BHC	ND		ug/kg	4.49	--	1	A
Beta-BHC	ND		ug/kg	10.8	--	1	A
Heptachlor	ND		ug/kg	5.39	--	1	A
Aldrin	ND		ug/kg	10.8	--	1	A
Heptachlor epoxide	ND		ug/kg	20.2	--	1	A
Endrin	ND		ug/kg	4.49	--	1	A
Endrin ketone	ND		ug/kg	10.8	--	1	A
Dieldrin	ND		ug/kg	6.73	--	1	A
4,4'-DDE	ND		ug/kg	10.8	--	1	A
4,4'-DDD	ND		ug/kg	10.8	--	1	A
4,4'-DDT	ND		ug/kg	20.2	--	1	A
Endosulfan I	ND		ug/kg	10.8	--	1	A
Endosulfan II	ND		ug/kg	10.8	--	1	A
Endosulfan sulfate	ND		ug/kg	4.49	--	1	A
Methoxychlor	ND		ug/kg	20.2	--	1	A
Chlordane	ND		ug/kg	87.5	--	1	A
Hexachlorobenzene	ND		ug/kg	10.8	--	1	A
Toxaphene	ND		ug/kg	202	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	56		30-150	B
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	47		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/22/17 20:19
Analyst: DM
Percent Solids: 73%
Methylation Date: 04/21/17 20:11

Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	74		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/25/17 13:28
Analyst: DM
Percent Solids: 80%

Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:56
Cleanup Method: EPA 3620B
Cleanup Date: 04/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.49	--	1	A
Lindane	ND		ug/kg	3.16	--	1	A
Alpha-BHC	ND		ug/kg	3.95	--	1	A
Beta-BHC	ND		ug/kg	9.49	--	1	A
Heptachlor	ND		ug/kg	4.74	--	1	A
Aldrin	ND		ug/kg	9.49	--	1	A
Heptachlor epoxide	ND		ug/kg	17.8	--	1	A
Endrin	ND		ug/kg	3.95	--	1	A
Endrin ketone	ND		ug/kg	9.49	--	1	A
Dieldrin	ND		ug/kg	5.93	--	1	A
4,4'-DDE	ND		ug/kg	9.49	--	1	B
4,4'-DDD	ND		ug/kg	9.49	--	1	A
4,4'-DDT	ND		ug/kg	17.8	--	1	A
Endosulfan I	ND		ug/kg	9.49	--	1	A
Endosulfan II	ND		ug/kg	9.49	--	1	A
Endosulfan sulfate	ND		ug/kg	3.95	--	1	A
Methoxychlor	ND		ug/kg	17.8	--	1	A
Chlordane	ND		ug/kg	77.1	--	1	A
Hexachlorobenzene	ND		ug/kg	9.49	--	1	A
Toxaphene	ND		ug/kg	178	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/22/17 20:58
Analyst: DM
Percent Solids: 80%
Methylation Date: 04/21/17 20:11

Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4100	--	1	A
MCPA	ND		ug/kg	4100	--	1	A
Dalapon	ND		ug/kg	41	--	1	A
Dicamba	ND		ug/kg	41	--	1	A
Dichloroprop	ND		ug/kg	41	--	1	A
2,4-D	ND		ug/kg	41	--	1	A
2,4-DB	ND		ug/kg	41	--	1	A
2,4,5-T	ND		ug/kg	41	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	41	--	1	A
Dinoseb	ND		ug/kg	41	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	71		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/25/17 13:40
Analyst: DM
Percent Solids: 83%

Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:56
Cleanup Method: EPA 3620B
Cleanup Date: 04/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.42	--	1	A
Lindane	ND		ug/kg	3.14	--	1	A
Alpha-BHC	ND		ug/kg	3.92	--	1	A
Beta-BHC	ND		ug/kg	9.42	--	1	A
Heptachlor	ND		ug/kg	4.71	--	1	A
Aldrin	ND		ug/kg	9.42	--	1	A
Heptachlor epoxide	ND		ug/kg	17.6	--	1	A
Endrin	ND		ug/kg	3.92	--	1	A
Endrin ketone	ND		ug/kg	9.42	--	1	A
Dieldrin	ND		ug/kg	5.88	--	1	A
4,4'-DDE	ND		ug/kg	9.42	--	1	A
4,4'-DDD	ND		ug/kg	9.42	--	1	A
4,4'-DDT	ND		ug/kg	17.6	--	1	A
Endosulfan I	ND		ug/kg	9.42	--	1	A
Endosulfan II	ND		ug/kg	9.42	--	1	A
Endosulfan sulfate	ND		ug/kg	3.92	--	1	A
Methoxychlor	ND		ug/kg	17.6	--	1	A
Chlordane	ND		ug/kg	76.5	--	1	A
Hexachlorobenzene	ND		ug/kg	9.42	--	1	A
Toxaphene	ND		ug/kg	176	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	46		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06 D
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/25/17 11:32
Analyst: DM
Percent Solids: 83%
Methylation Date: 04/21/17 20:11

Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**527**	Q	30-150	A
DCAA	143		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/25/17 13:53
Analyst: DM
Percent Solids: 85%

Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/20/17 00:56
Cleanup Method: EPA 3620B
Cleanup Date: 04/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.85	--	1	A
Lindane	ND		ug/kg	2.95	--	1	A
Alpha-BHC	ND		ug/kg	3.69	--	1	A
Beta-BHC	ND		ug/kg	8.85	--	1	A
Heptachlor	ND		ug/kg	4.42	--	1	A
Aldrin	ND		ug/kg	8.85	--	1	A
Heptachlor epoxide	ND		ug/kg	16.6	--	1	A
Endrin	ND		ug/kg	3.69	--	1	A
Endrin ketone	ND		ug/kg	8.85	--	1	A
Dieldrin	ND		ug/kg	5.53	--	1	A
4,4'-DDE	ND		ug/kg	8.85	--	1	A
4,4'-DDD	ND		ug/kg	8.85	--	1	A
4,4'-DDT	ND		ug/kg	16.6	--	1	A
Endosulfan I	ND		ug/kg	8.85	--	1	A
Endosulfan II	ND		ug/kg	8.85	--	1	A
Endosulfan sulfate	ND		ug/kg	3.69	--	1	A
Methoxychlor	ND		ug/kg	16.6	--	1	A
Chlordane	ND		ug/kg	71.9	--	1	A
Hexachlorobenzene	ND		ug/kg	8.85	--	1	A
Toxaphene	ND		ug/kg	166	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	109		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/22/17 21:38
Analyst: DM
Percent Solids: 85%
Methylation Date: 04/21/17 20:11

Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	94		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 04/20/17 17:54
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 04/19/17 22:11
Cleanup Method: EPA 3620B
Cleanup Date: 04/20/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-07 Batch: WG995795-1						
Delta-BHC	ND		ug/kg	7.81	--	A
Lindane	ND		ug/kg	2.60	--	A
Alpha-BHC	ND		ug/kg	3.26	--	A
Beta-BHC	ND		ug/kg	7.81	--	A
Heptachlor	ND		ug/kg	3.91	--	A
Aldrin	ND		ug/kg	7.81	--	A
Heptachlor epoxide	ND		ug/kg	14.6	--	A
Endrin	ND		ug/kg	3.26	--	A
Endrin ketone	ND		ug/kg	7.81	--	A
Dieldrin	ND		ug/kg	4.88	--	A
4,4'-DDE	ND		ug/kg	7.81	--	A
4,4'-DDD	ND		ug/kg	7.81	--	A
4,4'-DDT	ND		ug/kg	14.6	--	A
Endosulfan I	ND		ug/kg	7.81	--	A
Endosulfan II	ND		ug/kg	7.81	--	A
Endosulfan sulfate	ND		ug/kg	3.26	--	A
Methoxychlor	ND		ug/kg	14.6	--	A
Chlordane	ND		ug/kg	63.5	--	A
Hexachlorobenzene	ND		ug/kg	7.81	--	A
Toxaphene	ND		ug/kg	146	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	39		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 04/22/17 18:21
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 04/20/17 17:18

Methylation Date: 04/21/17 20:11

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-07 Batch: WG996134-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-07 Batch: WG995795-2 WG995795-3									
Delta-BHC	121		**141**	Q	40-140	15		30	A
Lindane	102		117		40-140	14		30	A
Alpha-BHC	111		127		40-140	13		30	A
Beta-BHC	102		126		40-140	21		30	A
Heptachlor	95		110		40-140	15		30	A
Aldrin	92		108		40-140	16		30	A
Heptachlor epoxide	95		109		40-140	14		30	A
Endrin	104		120		40-140	14		30	A
Endrin ketone	102		116		40-140	13		30	A
Dieldrin	108		125		40-140	15		30	A
4,4'-DDE	106		123		40-140	15		30	A
4,4'-DDD	104		121		40-140	15		30	A
4,4'-DDT	97		112		40-140	14		30	A
Endosulfan I	98		113		40-140	14		30	A
Endosulfan II	101		118		40-140	16		30	A
Endosulfan sulfate	100		113		40-140	12		30	A
Methoxychlor	96		111		40-140	14		30	A
Hexachlorobenzene	92		104		40-140	12		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-07 Batch: WG995795-2 WG995795-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		105		30-150	B
Decachlorobiphenyl	74		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		100		30-150	A
Decachlorobiphenyl	64		72		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-07 Batch: WG995795-4 WG995795-5									
Toxaphene	103		111		40-140	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		97		30-150	B
Decachlorobiphenyl	62		73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		89		30-150	A
Decachlorobiphenyl	62		71		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-07 Batch: WG996134-2 WG996134-3									
MCPP	111		97		40-140	13		30	A
MCPA	80		71		40-140	12		30	A
Dalapon	64		54		40-140	17		30	A
Dicamba	72		62		40-140	15		30	A
Dichloroprop	100		91		40-140	9		30	A
2,4-D	83		72		40-140	14		30	A
2,4-DB	82		72		40-140	13		30	A
2,4,5-T	76		68		40-140	11		30	A
2,4,5-TP (Silvex)	74		66		40-140	11		30	A
Dinoseb	40		**36**	Q	40-140	11		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	92		74		30-150	A
DCAA	76		65		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 86%

Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.4		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Arsenic, Total	56		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Barium, Total	65		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Beryllium, Total	0.28		mg/kg	0.22	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Cadmium, Total	0.46		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Chromium, Total	17		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Lead, Total	300		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Mercury, Total	1.01		mg/kg	0.076	--	1	04/20/17 07:40	04/21/17 13:42	EPA 7471B	97,7471B	BV
Nickel, Total	10		mg/kg	1.1	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Selenium, Total	2.8		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Vanadium, Total	21		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS
Zinc, Total	170		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:30	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified

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	2.4	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Arsenic, Total	20		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Barium, Total	50		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Beryllium, Total	0.31		mg/kg	0.24	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Chromium, Total	24		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Lead, Total	84		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Mercury, Total	0.257		mg/kg	0.082	--	1	04/20/17 07:40	04/21/17 13:44	EPA 7471B	97,7471B	BV
Nickel, Total	16		mg/kg	1.2	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Vanadium, Total	29		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS
Zinc, Total	77		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:34	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	4.4		mg/kg	2.5	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Arsenic, Total	44		mg/kg	0.49	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Barium, Total	55		mg/kg	0.49	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.25	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.49	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Chromium, Total	20		mg/kg	0.49	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Lead, Total	280		mg/kg	2.5	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Mercury, Total	1.05		mg/kg	0.082	--	1	04/20/17 07:40	04/21/17 13:45	EPA 7471B	97,7471B	BV
Nickel, Total	13		mg/kg	1.2	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.5	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.49	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.5	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Vanadium, Total	25		mg/kg	0.49	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS
Zinc, Total	140		mg/kg	2.5	--	1	04/20/17 21:10	04/21/17 13:38	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 73%

Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	3.5		mg/kg	2.7	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Arsenic, Total	40		mg/kg	0.55	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Barium, Total	57		mg/kg	0.55	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Beryllium, Total	0.31		mg/kg	0.27	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.55	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Chromium, Total	23		mg/kg	0.55	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Lead, Total	200		mg/kg	2.7	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Mercury, Total	1.04		mg/kg	0.090	--	1	04/20/17 07:40	04/21/17 13:47	EPA 7471B	97,7471B	BV
Nickel, Total	14		mg/kg	1.4	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.7	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.55	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.7	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Vanadium, Total	27		mg/kg	0.55	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS
Zinc, Total	140		mg/kg	2.7	--	1	04/20/17 21:10	04/21/17 13:42	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 80%

Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	4.1		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Arsenic, Total	59		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Barium, Total	58		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Beryllium, Total	0.32		mg/kg	0.24	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Chromium, Total	22		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Lead, Total	250		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Mercury, Total	2.38		mg/kg	0.079	--	1	04/20/17 07:40	04/21/17 13:49	EPA 7471B	97,7471B	BV
Nickel, Total	13		mg/kg	1.2	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Vanadium, Total	29		mg/kg	0.48	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS
Zinc, Total	130		mg/kg	2.4	--	1	04/20/17 21:10	04/21/17 13:46	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 83%

Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	4.3		mg/kg	2.3	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Arsenic, Total	67		mg/kg	0.46	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Barium, Total	40		mg/kg	0.46	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.23	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.46	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Chromium, Total	18		mg/kg	0.46	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Lead, Total	190		mg/kg	2.3	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Mercury, Total	1.10		mg/kg	0.080	--	1	04/20/17 07:40	04/21/17 13:51	EPA 7471B	97,7471B	BV
Nickel, Total	10		mg/kg	1.1	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Selenium, Total	2.6		mg/kg	2.3	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.46	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.3	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Vanadium, Total	20		mg/kg	0.46	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS
Zinc, Total	130		mg/kg	2.3	--	1	04/20/17 21:10	04/21/17 13:50	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 85%

Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	4.9		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Arsenic, Total	56		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Barium, Total	41		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.22	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Chromium, Total	17		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Lead, Total	240		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Mercury, Total	0.783		mg/kg	0.077	--	1	04/20/17 07:40	04/21/17 13:53	EPA 7471B	97,7471B	BV
Nickel, Total	10		mg/kg	1.1	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Selenium, Total	3.4		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Vanadium, Total	22		mg/kg	0.45	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS
Zinc, Total	230		mg/kg	2.2	--	1	04/20/17 21:10	04/21/17 13:54	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

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): 01-07 Batch: WG995838-1										
Mercury, Total	ND		mg/kg	0.083	--	1	04/20/17 07:40	04/21/17 10:00	97,7471B	BV

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): 01-07 Batch: WG996148-1										
Antimony, Total	ND		mg/kg	2.0	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Barium, Total	ND		mg/kg	0.40	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Chromium, Total	ND		mg/kg	0.40	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Lead, Total	ND		mg/kg	2.0	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Nickel, Total	ND		mg/kg	1.0	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Selenium, Total	ND		mg/kg	2.0	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Silver, Total	ND		mg/kg	0.40	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Thallium, Total	ND		mg/kg	2.0	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS
Zinc, Total	ND		mg/kg	2.0	--	1	04/20/17 21:10	04/21/17 11:22	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG995838-2 WG995838-3 SRM Lot Number: D091-540								
Mercury, Total	102		125		72-128	20		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG996148-2 WG996148-3 SRM Lot Number: D091-540								
Antimony, Total	179		154		1-200	15		30
Arsenic, Total	110		103		80-121	7		30
Barium, Total	91		91		84-117	0		30
Beryllium, Total	100		97		83-117	3		30
Cadmium, Total	108		100		83-117	8		30
Chromium, Total	105		91		80-119	14		30
Lead, Total	103		103		82-118	0		30
Nickel, Total	108		101		83-117	7		30
Selenium, Total	101		96		79-121	5		30
Silver, Total	96		96		76-124	0		30
Thallium, Total	106		99		80-121	7		30
Vanadium, Total	96		96		78-122	0		30
Zinc, Total	103		98		82-118	5		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/21/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:10
Date Received: 04/19/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/21/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/21/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/21/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/21/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/21/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	04/21/17 12:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:00
Date Received: 04/19/17
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	1100		umhos/cm	10	--	1	-	04/20/17 06:58	1,9050A	VB
Solids, Total	85.5		%	0.100	NA	1	-	04/21/17 08:06	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	04/20/17 06:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	04/24/17 22:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:27	1,7.3	CW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:14	1,7.3	CW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-02
Client ID: SHORELINE STOCKPILE #7B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:10
Date Received: 04/19/17
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	620		umhos/cm	10	--	1	-	04/20/17 06:58	1,9050A	VB
Solids, Total	78.9		%	0.100	NA	1	-	04/21/17 08:06	121,2540G	RI
pH (H)	8.0		SU	-	NA	1	-	04/20/17 06:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	04/24/17 22:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:27	1,7.3	CW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:15	1,7.3	CW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-03
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:20
Date Received: 04/19/17
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	890		umhos/cm	10	--	1	-	04/20/17 06:58	1,9050A	VB
Solids, Total	79.1		%	0.100	NA	1	-	04/21/17 08:06	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	04/20/17 06:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	04/24/17 22:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:27	1,7.3	CW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:15	1,7.3	CW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-04
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:30
Date Received: 04/19/17
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	840		umhos/cm	10	--	1	-	04/20/17 06:58	1,9050A	VB
Solids, Total	72.7		%	0.100	NA	1	-	04/21/17 08:06	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	04/20/17 06:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	04/24/17 22:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:27	1,7.3	CW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:16	1,7.3	CW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-05
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:40
Date Received: 04/19/17
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	790		umhos/cm	10	--	1	-	04/20/17 06:58	1,9050A	VB
Solids, Total	79.8		%	0.100	NA	1	-	04/21/17 08:06	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	04/20/17 06:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	04/24/17 22:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:28	1,7.3	CW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:16	1,7.3	CW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-06
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:50
Date Received: 04/19/17
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	680		umhos/cm	10	--	1	-	04/20/17 06:58	1,9050A	VB
Solids, Total	82.8		%	0.100	NA	1	-	04/21/17 08:06	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	04/20/17 06:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	04/24/17 22:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:28	1,7.3	CW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:16	1,7.3	CW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

SAMPLE RESULTS

Lab ID: L1712318-07
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 11:00
Date Received: 04/19/17
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	780		umhos/cm	10	--	1	-	04/20/17 06:58	1,9050A	VB
Solids, Total	85.1		%	0.100	NA	1	-	04/21/17 08:06	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	04/20/17 06:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	04/24/17 22:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:28	1,7.3	CW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:16	1,7.3	CW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712318
Report Date: 04/25/17

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): 01-07 Batch: WG996161-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:11	1,7.3	CW
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG996162-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	04/20/17 19:00	04/20/17 23:24	1,7.3	CW

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712318

Report Date: 04/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG995854-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG995857-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG996161-2								
Sulfide, Reactive	83		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG996162-2								
Cyanide, Reactive	50		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG997112-1								
Flash Point	98		-		96-104	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG995854-2 QC Sample: L1712318-01 Client ID: SHORELINE STOCKPILE #7A						
pH (H)	7.5	7.6	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG995857-2 QC Sample: L1712318-01 Client ID: SHORELINE STOCKPILE #7A						
Specific Conductance @ 25 C	1100	1100	umhos/cm	0		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/20/2017 02:39

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712318-01A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-01B	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-01C	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-01E	Glass 250ml/8oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-01F	Metals Only - Glass 60mL/2oz unp	A	N/A	3.0	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)
L1712318-01G	Glass 500ml/16oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-01H	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(2)
L1712318-02A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-02B	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-02C	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712318-02E	Glass 250ml/8oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-02F	Metals Only - Glass 60mL/2oz unp	A	N/A	3.0	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)
L1712318-02G	Glass 500ml/16oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-02H	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(2)
L1712318-03A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-03B	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-03C	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-03E	Glass 250ml/8oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-03F	Metals Only - Glass 60mL/2oz unp	A	N/A	3.0	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: L1712318
Report Date: 04/25/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712318-03G	Glass 500ml/16oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-03H	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(2)
L1712318-04A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-04B	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-04C	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-04E	Glass 250ml/8oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-04F	Metals Only - Glass 60mL/2oz unp	A	N/A	3.0	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)
L1712318-04G	Glass 500ml/16oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-04H	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(2)
L1712318-05A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-05B	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-05C	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-05E	Glass 250ml/8oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712318-05F	Metals Only - Glass 60mL/2oz unp	A	N/A	3.0	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)
L1712318-05G	Glass 500ml/16oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-05H	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(2)
L1712318-06A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-06B	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-06C	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-06E	Glass 250ml/8oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-06F	Metals Only - Glass 60mL/2oz unp	A	N/A	3.0	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)
L1712318-06G	Glass 500ml/16oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-06H	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(2)
L1712318-07A	Vial MeOH preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712318
Report Date: 04/25/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712318-07B	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-07C	Vial water preserved	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(14)
L1712318-07E	Glass 250ml/8oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-07F	Metals Only - Glass 60mL/2oz unp	A	N/A	3.0	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)
L1712318-07G	Glass 500ml/16oz unpreserved	A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712318-07H	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1712318
Project Number:	171521.52	**Report Date:**	04/25/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1712318
Project Number:	171521.52	**Report Date:**	04/25/17

Data Qualifiers

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:**	L1712318
Project Number:	171521.52	**Report Date:**	04/25/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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 DD OF

Date Rec'd in Lab: 04/19/17

ALPHA Job #: L1712318

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
TCLP 20x rule applies for MCP-14 meatals

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)

TOTAL # BOTTLES

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, ignt	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	Sample Specific Comments
12318-01	Shoreline Stockpile #7A	4/19/17	1000	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
02	Shoreline Stockpile #7B	4/19/17	1010	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
03	Shoreline Stockpile #7C	4/19/17	1020	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
04	Shoreline Stockpile #7D	4/19/17	1030	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
05	Shoreline Stockpile #7E	4/19/17	1040	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
06	Shoreline Stockpile #7F	4/19/17	1050	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
07	Shoreline Stockpile #7G	4/19/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
08						☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	4/19/17 @ 12:35		4/19/17 1235
	4/19/17 1800		4/19/17 1800

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.

CHAIN OF CUSTODY

PAGE DD OF

Date Rec'd in Lab: 04/19/17

ALPHA Job #: L1712318

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

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: 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
TCLP 20x rule applies for MCP-14 meatals

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)

TOTAL # BOTTLES

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
12318-01	Shoreline Stockpile #7A	4/19/17	1000	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
02	Shoreline Stockpile #7B	4/19/17	1010	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
03	Shoreline Stockpile #7C	4/19/17	1020	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
04	Shoreline Stockpile #7D	4/19/17	1030	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
05	Shoreline Stockpile #7E	4/19/17	1040	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
06	Shoreline Stockpile #7F	4/19/17	1050	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
07	Shoreline Stockpile #7G	4/19/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
08						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Container Type						G	-	-	-	-	-	-	-	-	-	-	-	
Preservative						-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	4/19/17 @ 12:35		4/19/17 1235
	4/19/17 1800		4/19/17 1800

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1712318
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG996941-5	**Lab File ID**	: V00170423A05
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 04/23/17 10:36

Client Sample No.	Lab Sample ID	Analysis Date
WG996941-3LCS	WG996941-3	04/23/17 08:50
WG996941-4LCSD	WG996941-4	04/23/17 09:16
SHORELINE STOCKPILE #7A	L1712318-01	04/23/17 14:07
SHORELINE STOCKPILE #7B	L1712318-02	04/23/17 14:34
SHORELINE STOCKPILE #7C	L1712318-03	04/23/17 15:00
SHORELINE STOCKPILE #7D	L1712318-04	04/23/17 15:26
SHORELINE STOCKPILE #7F	L1712318-06	04/23/17 15:53
SHORELINE STOCKPILE #7E	L1712318-05	04/23/17 16:19
SHORELINE STOCKPILE #7G	L1712318-07	04/23/17 16:46

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1712318	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA100	Calibration Date	: 04/23/17 08:50	
Lab File ID	: V00170423A01	Init. Calib. Date(s)	: 04/20/17	04/20/17
Sample No	: WG996941-2	Init. Calib. Times	: 07:19	10:24
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	111	0
Dichlorodifluoromethane	0.216	0.243	-	-12.5	20	124	0
Chloromethane	0.349	0.35	-	-0.3	20	112	.06
Vinyl chloride	0.234	0.248	-	-6	20	117	0
Bromomethane	0.107	0.116	-	-8.4	20	114	0
Chloroethane	0.109	0.121	-	-11	20	112	0
Trichlorofluoromethane	0.211	0.232	-	-10	20	120	0
Ethyl ether	0.08	0.082	-	-2.5	20	109	0
1,1-Dichloroethene	0.137	0.167	-	-21.9*	20	125	0
Carbon disulfide	20	18.977	-	5.1	20	101	0
Freon-113	0.128	0.154	-	-20.3*	20	127	0
Acrolein	0.032	0.036	-	-12.5	20	125	0
Methylene chloride	0.2	0.208	-	-4	20	118	0
Acetone	0.052	0.056	-	-7.7	20	116	0
trans-1,2-Dichloroethene	0.179	0.189	-	-5.6	20	117	0
Methyl acetate	0.131	0.129	-	1.5	20	119	0
Methyl tert-butyl ether	0.45	0.459	-	-2	20	116	0
tert-Butyl alcohol	0.022	0.024	-	-9.1	20	120	0
Diisopropyl ether	0.91	0.904	-	0.7	20	109	0
1,1-Dichloroethane	0.413	0.429	-	-3.9	20	115	0
Halothane	0.123	0.128	-	-4.1	20	115	0
Acrylonitrile	0.064	0.068	-	-6.3	20	112	0
Ethyl tert-butyl ether	0.602	0.62	-	-3	20	113	0
Vinyl acetate	0.458	0.485	-	-5.9	20	116	0
cis-1,2-Dichloroethene	0.196	0.201	-	-2.6	20	113	0
2,2-Dichloropropane	0.263	0.282	-	-7.2	20	118	0
Bromochloromethane	0.083	0.088	-	-6	20	112	0
Cyclohexane	0.391	0.431	-	-10.2	20	120	0
Chloroform	0.34	0.35	-	-2.9	20	112	0
Ethyl acetate	0.197	0.209	-	-6.1	20	117	0
Carbon tetrachloride	0.233	0.254	-	-9	20	117	0
Tetrahydrofuran	0.064	0.067	-	-4.7	20	117	0
Dibromofluoromethane	0.244	0.246	-	-0.8	20	111	0
1,1,1-Trichloroethane	0.28	0.299	-	-6.8	20	117	0
2-Butanone	0.083	0.08	-	3.6	20	111	0
1,1-Dichloropropene	0.245	0.266	-	-8.6	20	120	0
Benzene	0.727	0.76	-	-4.5	20	114	0
tert-Amyl methyl ether	0.367	0.38	-	-3.5	20	114	0
1,2-Dichloroethane-d4	0.276	0.28	-	-1.4	20	112	0
1,2-Dichloroethane	0.275	0.28	-	-1.8	20	111	0
Methyl cyclohexane	0.255	0.281	-	-10.2	20	122	0
Trichloroethene	0.188	0.196	-	-4.3	20	114	0
Dibromomethane	0.1	0.103	-	-3	20	112	0
1,2-Dichloropropane	0.229	0.237	-	-3.5	20	113	0
2-Chloroethyl vinyl ether	0.00208	0.00178	-	14.4	20	101	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1712318	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA100	Calibration Date	: 04/23/17 08:50	
Lab File ID	: V00170423A01	Init. Calib. Date(s)	: 04/20/17	04/20/17
Sample No	: WG996941-2	Init. Calib. Times	: 07:19	10:24
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.247	0.245	-	0.8	20	108	0
1,4-Dioxane	1000	1109.636	-	-11	20	118	0
cis-1,3-Dichloropropene	0.298	0.299	-	-0.3	20	113	0
Chlorobenzene-d5	1	1	-	0	20	110	0
Toluene-d8	1.42	1.41	-	0.7	20	111	0
Toluene	0.644	0.663	-	-3	20	114	0
4-Methyl-2-pentanone	0.097	0.096	-	1	20	114	0
Tetrachloroethene	0.254	0.257	-	-1.2	20	114	0
trans-1,3-Dichloropropene	0.367	0.368	-	-0.3	20	111	0
Ethyl methacrylate	0.275	0.286	-	-4	20	113	0
1,1,2-Trichloroethane	0.173	0.177	-	-2.3	20	111	0
Chlorodibromomethane	0.245	0.244	-	0.4	20	108	0
1,3-Dichloropropane	0.363	0.373	-	-2.8	20	111	0
1,2-Dibromoethane	0.191	0.193	-	-1	20	109	0
2-Hexanone	0.181	0.179	-	1.1	20	115	0
Chlorobenzene	0.705	0.722	-	-2.4	20	111	0
Ethylbenzene	1.218	1.273	-	-4.5	20	113	0
1,1,1,2-Tetrachloroethane	0.248	0.25	-	-0.8	20	108	0
p/m Xylene	0.441	0.472	-	-7	20	112	0
o Xylene	0.416	0.444	-	-6.7	20	110	0
Styrene	0.699	0.734	-	-5	20	109	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	109	0
Bromoform	0.289	0.284	-	1.7	20	106	0
Isopropylbenzene	2.389	2.537	-	-6.2	20	113	0
4-Bromofluorobenzene	1.025	1.039	-	-1.4	20	112	0
Bromobenzene	0.576	0.564	-	2.1	20	106	0
n-Propylbenzene	2.935	3.119	-	-6.3	20	113	0
1,4-Dichlorobutane	1.036	1.049	-	-1.3	20	108	0
1,1,2,2-Tetrachloroethane	0.516	0.538	-	-4.3	20	111	0
4-Ethyltoluene	2.365	2.438	-	-3.1	20	110	0
2-Chlorotoluene	1.877	1.889	-	-0.6	20	111	0
1,3,5-Trimethylbenzene	2.034	2.171	-	-6.7	20	112	0
1,2,3-Trichloropropane	0.421	0.444	-	-5.5	20	113	0
trans-1,4-Dichloro-2-buten	0.166	0.17	-	-2.4	20	110	0
4-Chlorotoluene	1.821	1.867	-	-2.5	20	110	0
tert-Butylbenzene	1.648	1.769	-	-7.3	20	114	0
1,2,4-Trimethylbenzene	2.025	2.13	-	-5.2	20	109	0
sec-Butylbenzene	2.523	2.736	-	-8.4	20	115	0
p-Isopropyltoluene	2.121	2.279	-	-7.4	20	113	0
1,3-Dichlorobenzene	1.146	1.145	-	0.1	20	106	0
1,4-Dichlorobenzene	1.161	1.139	-	1.9	20	107	0
p-Diethylbenzene	1.234	1.282	-	-3.9	20	110	0
n-Butylbenzene	2.079	2.231	-	-7.3	20	114	0
1,2-Dichlorobenzene	1.042	1.039	-	0.3	20	107	0
1,2,4,5-Tetramethylbenzene	1.918	1.936	-	-0.9	20	109	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1712318	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA100	**Calibration Date**	: 04/23/17 08:50	
Lab File ID	: V00170423A01	**Init. Calib. Date(s)**	: 04/20/17	04/20/17
Sample No	: WG996941-2	**Init. Calib. Times**	: 07:19	10:24
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.066	0.067	-	-1.5	20	111	0
1,3,5-Trichlorobenzene	0.785	0.773	-	1.5	20	108	0
Hexachlorobutadiene	0.379	0.383	-	-1.1	20	114	0
1,2,4-Trichlorobenzene	0.692	0.671	-	3	20	109	0
Naphthalene	1.43	1.395	-	2.4	20	111	0
1,2,3-Trichlorobenzene	0.624	0.6	-	3.8	20	109	0

* Value outside of QC limits.

I:\Pest18\170425a\18170425a-01.d

Data File Name	**18170425a-01.d**
Data File Path	**I:\Pest18\170425a**
Operator	**PEST18:dm**
Date Acquired	**4/25/2017 10:45**
Acq. Method File	**PEST.M**
Sample Name	**pem18170425a01,42ee,,c**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
4,4'-DDT	4.67	268015118.3	% Breakdown
4,4'-DDE	4.02	1196552.018	
4,4'-DDD	4.46	872739.249	0.77%
Endrin	4.39	174696985.8	% Breakdown
ıdrin Aldehy	4.86	1059601.697	
ndrin Keton	5.36	2274111.209	1.87%
4,4'-DDT #2	5.32	280441476.7	% Breakdown
4,4'-DDE #2	4.67	769331.654	
4,4'-DDD #2	5.10	1458039.561	0.79%
Endrin #2	5.02	165088194.4	% Breakdown
rin Aldehyd	5.41	997022.604	
drin Ketone	5.96	1460441.953	1.47%

######### Data File Path **I:\Pest17\150918**

L1712318-01,02,03,04,05,06,07

Data File Name	**18170420b-01.d**
Data File Path	**I:\Pest18\170420b**
Operator	**PEST18:dm**
Date Acquired	**4/20/2017 16:36**
Acq. Method File	**PEST.M**
Sample Name	**pem18170420b01,42ee,,c**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
4,4'-DDT	4.66	208493736.1	% Breakdown
4,4'-DDE	3.98	1040778.426	
4,4'-DDD	4.45	662003.042	0.81%
Endrin	4.38	140024444.1	% Breakdown
Endrin Aldehyd	4.86	658343.05	
Endrin Ketone	5.36	1676845.952	1.64%
4,4'-DDT #2	5.31	220403993.4	% Breakdown
4,4'-DDE #2	4.66	573749.274	
4,4'-DDD #2	5.09	724353.448	0.59%
Endrin #2	5.02	134511934.2	% Breakdown
drin Aldehyde	5.41	705318.659	
ndrin Ketone #	5.96	1101268.219	1.33%

######### Data File Path **I:\Pest17\150918**

WG995795-1,2,3

ANALYTICAL REPORT

Lab Number:	L1712815
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:	04/26/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1712815
Report Date: 04/26/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1712815-01	SHORELINE STOCKPILE #7A	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:00	04/19/17
L1712815-02	SHORELINE STOCKPILE #7C	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:20	04/19/17
L1712815-03	SHORELINE STOCKPILE #7D	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:30	04/19/17
L1712815-04	SHORELINE STOCKPILE #7E	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:40	04/19/17
L1712815-05	SHORELINE STOCKPILE #7F	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 10:50	04/19/17
L1712815-06	SHORELINE STOCKPILE #7G	SOIL	1 HORIZON WAY, EVERETT, MA	04/19/17 11:00	04/19/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712815
Report Date: 04/26/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712815
Report Date: 04/26/17

Case Narrative (continued)

Sample Receipt

The project name and number were specified by the client.

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: 04/26/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1712815
Project Number: 171521.52
Report Date: 04/26/17

SAMPLE RESULTS

Lab ID: L1712815-01
Client ID: SHORELINE STOCKPILE #7A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:00
Date Received: 04/19/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/24/17 22:26

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	0.50	--	1	04/26/17 05:21	04/26/17 06:59	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1712815
Project Number: 171521.52
Report Date: 04/26/17

SAMPLE RESULTS

Lab ID: L1712815-02
Client ID: SHORELINE STOCKPILE #7C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:20
Date Received: 04/19/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/24/17 22:26

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	0.50	--	1	04/26/17 05:21	04/26/17 07:03	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1712815
Project Number: 171521.52
Report Date: 04/26/17

SAMPLE RESULTS

Lab ID: L1712815-03
Client ID: SHORELINE STOCKPILE #7D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:30
Date Received: 04/19/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/24/17 22:26

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	04/26/17 05:21	04/26/17 07:26	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Lab Number: L1712815
Project Number: 171521.52
Report Date: 04/26/17

SAMPLE RESULTS

Lab ID: L1712815-04
Client ID: SHORELINE STOCKPILE #7E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:40
Date Received: 04/19/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/24/17 22:26

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	0.57		mg/l	0.50	--	1	04/26/17 05:21	04/26/17 07:30	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Lab Number: L1712815
Project Number: 171521.52
Report Date: 04/26/17

SAMPLE RESULTS

Lab ID: L1712815-05
Client ID: SHORELINE STOCKPILE #7F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 10:50
Date Received: 04/19/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/24/17 22:26

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	0.50	--	1	04/26/17 05:21	04/26/17 07:34	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Lab Number: L1712815
Project Number: 171521.52
Report Date: 04/26/17

SAMPLE RESULTS

Lab ID: L1712815-06
Client ID: SHORELINE STOCKPILE #7G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/19/17 11:00
Date Received: 04/19/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/24/17 22:26

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	04/26/17 05:21	04/26/17 08:01	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712815
Report Date: 04/26/17

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): 01-06 Batch: WG997558-1										
Lead, TCLP	ND		mg/l	0.50	--	1	04/26/17 05:21	04/26/17 06:28	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 04/24/17 22:26

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712815

Report Date: 04/26/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-06 Batch: WG997558-2								
Lead, TCLP	86		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712815
Report Date: 04/26/17

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): 01-06 QC Batch ID: WG997558-3 QC Sample: L1712698-01 Client ID: MS Sample												
Lead, TCLP	1.6	5.1	6.4	94		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712815
Report Date: 04/26/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG997558-4 QC Sample: L1712698-01 Client ID: DUP Sample						
Lead, TCLP	1.6	1.7	mg/l	6		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712815
Report Date: 04/26/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712815-01A	Glass 500ml/16oz unpreserved	A	N/A	3.0	Y	Absent	-
L1712815-01X	Plastic 120ml HNO3 preserved Ext	A	<2	3.0	Y	Absent	PB-CI(180)
L1712815-01X9	Tumble Vessel	A	N/A	3.0	Y	Absent	-
L1712815-02A	Glass 500ml/16oz unpreserved	A	N/A	3.0	Y	Absent	-
L1712815-02X	Plastic 120ml HNO3 preserved Ext	A	<2	3.0	Y	Absent	PB-CI(180)
L1712815-02X9	Tumble Vessel	A	N/A	3.0	Y	Absent	-
L1712815-03A	Glass 500ml/16oz unpreserved	A	N/A	3.0	Y	Absent	-
L1712815-03X	Plastic 120ml HNO3 preserved Ext	A	<2	3.0	Y	Absent	PB-CI(180)
L1712815-03X9	Tumble Vessel	A	N/A	3.0	Y	Absent	-
L1712815-04A	Glass 500ml/16oz unpreserved	A	N/A	3.0	Y	Absent	-
L1712815-04X	Plastic 120ml HNO3 preserved Ext	A	<2	3.0	Y	Absent	PB-CI(180)
L1712815-04X9	Tumble Vessel	A	N/A	3.0	Y	Absent	-
L1712815-05A	Glass 500ml/16oz unpreserved	A	N/A	3.0	Y	Absent	-
L1712815-05X	Plastic 120ml HNO3 preserved Ext	A	<2	3.0	Y	Absent	PB-CI(180)
L1712815-05X9	Tumble Vessel	A	N/A	3.0	Y	Absent	-
L1712815-06A	Glass 500ml/16oz unpreserved	A	N/A	3.0	Y	Absent	-
L1712815-06X	Plastic 120ml HNO3 preserved Ext	A	<2	3.0	Y	Absent	PB-CI(180)
L1712815-06X9	Tumble Vessel	A	N/A	3.0	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1712815
Project Number:	171521.52	**Report Date:**	04/26/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1712815
Project Number:	171521.52	**Report Date:**	04/26/17

Data Qualifiers

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:**	L1712815
Project Number:	171521.52	**Report Date:**	04/26/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 4/20/17

JK 4/24/17 L1712815

CHAIN OF CUSTODY

PAGE DD 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: 04/19/17

ALPHA Job #: ~~L1712318~~

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: 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 meatals

12815-01

ANALYSIS

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

TOTAL # BOTTLES

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, GRT	Herbicides, Pesticides w/ Toxaphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	TCLP-PB					Sample Specific Comments
12318-01	Shoreline Stockpile #7A	4/19/17	1000	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
02	Shoreline Stockpile #7B	4/19/17	1010	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-02 03	Shoreline Stockpile #7C	4/19/17	1020	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
-03 04	Shoreline Stockpile #7D	4/19/17	1030	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
-04 05	Shoreline Stockpile #7E	4/19/17	1040	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
-05 06	Shoreline Stockpile #7F	4/19/17	1050	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
-06 07	Shoreline Stockpile #7G	4/19/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
08						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					Container Type	G	-	-	-	-	-	-	-	-	-	-	-	
					Preservative	-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	4/19/17 @ 12:35		4/19/17 1235
	4/19/17 1600		4/19/17 1800

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:	L1712854
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:	04/30/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1712854
Report Date: 04/30/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1712854-01	SHORELINE STOCKPILE #5A	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 09:30	04/24/17
L1712854-02	SHORELINE STOCKPILE #5B	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 09:40	04/24/17
L1712854-03	SHORELINE STOCKPILE #5C	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 09:50	04/24/17
L1712854-04	SHORELINE STOCKPILE #5D	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 10:00	04/24/17
L1712854-05	SHORELINE STOCKPILE #5E	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 10:10	04/24/17

Project Name:	WYNN EVERETT	**Lab Number:**	L1712854
Project Number:	171521.52	**Report Date:**	04/30/17

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: L1712854
Report Date: 04/30/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question G:

L1712854-03: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1712854-01 through -05, did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0849) and 1,4-dioxane (0.0025), as well as the average response factor for acetone and 1,4-dioxane.

The continuing calibration standards, associated with L1712854-01 through -05, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. A copy of the continuing calibration standards are included as an addendum to this report.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1712854-01 through -05: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG997427-2/-3 LCS/LCSD recoveries, associated with L1712854-01 through -03, are below the acceptance criteria for dinoseb (8%/3%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported;

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Case Narrative (continued)

however, all results are considered to have a potentially low bias for this compound.

The WG998622-2/-3 LCS/LCSD recoveries, associated with L1712854-04 and -05, are below the acceptance criteria for dinoseb (6%/10%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 04/30/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/27/17 15:53
Analyst: MV
Percent Solids: 82%

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	--	1
1,1-Dichloroethane	ND		ug/kg	0.76	--	1
Chloroform	ND		ug/kg	0.76	--	1
Carbon tetrachloride	ND		ug/kg	0.51	--	1
1,2-Dichloropropane	ND		ug/kg	1.8	--	1
Dibromochloromethane	ND		ug/kg	0.51	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.76	--	1
Tetrachloroethene	ND		ug/kg	0.51	--	1
Chlorobenzene	ND		ug/kg	0.51	--	1
Trichlorofluoromethane	ND		ug/kg	2.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.51	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	--	1
Bromodichloromethane	ND		ug/kg	0.51	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	--	1
1,1-Dichloropropene	ND		ug/kg	2.0	--	1
Bromoform	ND		ug/kg	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Benzene	ND		ug/kg	0.51	--	1
Toluene	ND		ug/kg	0.76	--	1
Ethylbenzene	ND		ug/kg	0.51	--	1
Chloromethane	ND		ug/kg	2.0	--	1
Bromomethane	ND		ug/kg	1.0	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	1.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.51	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.76	--	1
Trichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01 Date Collected: 04/24/17 09:30

Client ID: SHORELINE STOCKPILE #5A Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.0	--	1
p/m-Xylene	ND		ug/kg	1.0	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.51	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	5.1	--	1
Acetone	ND		ug/kg	18	--	1
Carbon disulfide	ND		ug/kg	2.0	--	1
Methyl ethyl ketone	ND		ug/kg	5.1	--	1
Methyl isobutyl ketone	ND		ug/kg	5.1	--	1
2-Hexanone	ND		ug/kg	5.1	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	2.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.5	--	1
1,2-Dibromoethane	ND		ug/kg	2.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Bromobenzene	ND		ug/kg	2.5	--	1
n-Butylbenzene	ND		ug/kg	0.51	--	1
sec-Butylbenzene	ND		ug/kg	0.51	--	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	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.0	--	1
Isopropylbenzene	ND		ug/kg	0.51	--	1
p-Isopropyltoluene	ND		ug/kg	0.51	--	1
Naphthalene	ND		ug/kg	2.0	--	1
n-Propylbenzene	ND		ug/kg	0.51	--	1
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

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01 Date Collected: 04/24/17 09:30

Client ID: SHORELINE STOCKPILE #5A Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	2.5	--	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	20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	101		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/27/17 16:19
Analyst: MV
Percent Solids: 82%

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.73	--	1
Chloroform	ND		ug/kg	0.73	--	1
Carbon tetrachloride	ND		ug/kg	0.49	--	1
1,2-Dichloropropane	ND		ug/kg	1.7	--	1
Dibromochloromethane	ND		ug/kg	0.49	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.73	--	1
Tetrachloroethene	ND		ug/kg	0.49	--	1
Chlorobenzene	ND		ug/kg	0.49	--	1
Trichlorofluoromethane	ND		ug/kg	2.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.49	--	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	0.49	--	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	2.0	--	1
Bromoform	ND		ug/kg	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	--	1
Benzene	ND		ug/kg	0.49	--	1
Toluene	ND		ug/kg	0.73	--	1
Ethylbenzene	0.79		ug/kg	0.49	--	1
Chloromethane	ND		ug/kg	2.0	--	1
Bromomethane	ND		ug/kg	0.98	--	1
Vinyl chloride	ND		ug/kg	0.98	--	1
Chloroethane	ND		ug/kg	0.98	--	1
1,1-Dichloroethene	ND		ug/kg	0.49	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.73	--	1
Trichloroethene	ND		ug/kg	0.49	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02 Date Collected: 04/24/17 09:40

Client ID: SHORELINE STOCKPILE #5B Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	0.98	--	1
p/m-Xylene	2.6		ug/kg	0.98	--	1
o-Xylene	2.6		ug/kg	0.98	--	1
Xylenes, Total	5.2		ug/kg	0.98	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.49	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.49	--	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	4.9	--	1
Acetone	ND		ug/kg	18	--	1
Carbon disulfide	ND		ug/kg	2.0	--	1
Methyl ethyl ketone	ND		ug/kg	4.9	--	1
Methyl isobutyl ketone	ND		ug/kg	4.9	--	1
2-Hexanone	ND		ug/kg	4.9	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	2.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	2.0	--	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	2.4	--	1
n-Butylbenzene	ND		ug/kg	0.49	--	1
sec-Butylbenzene	ND		ug/kg	0.49	--	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	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.0	--	1
Isopropylbenzene	ND		ug/kg	0.49	--	1
p-Isopropyltoluene	2.5		ug/kg	0.49	--	1
Naphthalene	ND		ug/kg	2.0	--	1
n-Propylbenzene	ND		ug/kg	0.49	--	1
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

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	2.4	--	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	20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/27/17 18:03
Analyst: MV
Percent Solids: 79%

Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	540	--	1
1,1-Dichloroethane	ND		ug/kg	81	--	1
Chloroform	ND		ug/kg	81	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	190	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	81	--	1
Tetrachloroethene	ND		ug/kg	54	--	1
Chlorobenzene	ND		ug/kg	54	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	54	--	1
Bromodichloromethane	ND		ug/kg	54	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	54	--	1
1,3-Dichloropropene, Total	ND		ug/kg	54	--	1
1,1-Dichloropropene	ND		ug/kg	220	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	54	--	1
Benzene	ND		ug/kg	54	--	1
Toluene	ND		ug/kg	81	--	1
Ethylbenzene	200		ug/kg	54	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	110	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	81	--	1
Trichloroethene	ND		ug/kg	54	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03 Date Collected: 04/24/17 09:50

Client ID: SHORELINE STOCKPILE #5C Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	790		ug/kg	110	--	1
o-Xylene	340		ug/kg	110	--	1
Xylenes, Total	1100		ug/kg	110	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	220	--	1
1,2,3-Trichloropropane	ND		ug/kg	220	--	1
Styrene	ND		ug/kg	110	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	1900	--	1
Carbon disulfide	250		ug/kg	220	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	220	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	270	--	1
1,2-Dibromoethane	ND		ug/kg	220	--	1
1,3-Dichloropropane	ND		ug/kg	220	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	54	--	1
Bromobenzene	ND		ug/kg	270	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	220	--	1
o-Chlorotoluene	ND		ug/kg	220	--	1
p-Chlorotoluene	ND		ug/kg	220	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	ND		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	54	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	220	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	220	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	220	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03 Date Collected: 04/24/17 09:50

Client ID: SHORELINE STOCKPILE #5C Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	270	--	1
Diisopropyl Ether	ND		ug/kg	220	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	220	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	220	--	1
1,4-Dioxane	ND		ug/kg	2200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/27/17 16:45
Analyst: MV
Percent Solids: 78%

Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	--	1
1,1-Dichloroethane	ND		ug/kg	0.76	--	1
Chloroform	ND		ug/kg	0.76	--	1
Carbon tetrachloride	ND		ug/kg	0.50	--	1
1,2-Dichloropropane	ND		ug/kg	1.8	--	1
Dibromochloromethane	ND		ug/kg	0.50	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.76	--	1
Tetrachloroethene	ND		ug/kg	0.50	--	1
Chlorobenzene	ND		ug/kg	0.50	--	1
Trichlorofluoromethane	ND		ug/kg	2.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.50	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	--	1
Bromodichloromethane	ND		ug/kg	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--	1
1,1-Dichloropropene	ND		ug/kg	2.0	--	1
Bromoform	ND		ug/kg	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--	1
Benzene	ND		ug/kg	0.50	--	1
Toluene	ND		ug/kg	0.76	--	1
Ethylbenzene	ND		ug/kg	0.50	--	1
Chloromethane	ND		ug/kg	2.0	--	1
Bromomethane	ND		ug/kg	1.0	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	1.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.76	--	1
Trichloroethene	ND		ug/kg	0.50	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04 Date Collected: 04/24/17 10:00

Client ID: SHORELINE STOCKPILE #5D Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.0	--	1
p/m-Xylene	ND		ug/kg	1.0	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.50	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.50	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	5.0	--	1
Acetone	ND		ug/kg	18	--	1
Carbon disulfide	ND		ug/kg	2.0	--	1
Methyl ethyl ketone	ND		ug/kg	5.0	--	1
Methyl isobutyl ketone	ND		ug/kg	5.0	--	1
2-Hexanone	ND		ug/kg	5.0	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	2.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.5	--	1
1,2-Dibromoethane	ND		ug/kg	2.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--	1
Bromobenzene	ND		ug/kg	2.5	--	1
n-Butylbenzene	ND		ug/kg	0.50	--	1
sec-Butylbenzene	ND		ug/kg	0.50	--	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	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.0	--	1
Isopropylbenzene	ND		ug/kg	0.50	--	1
p-Isopropyltoluene	1.5		ug/kg	0.50	--	1
Naphthalene	ND		ug/kg	2.0	--	1
n-Propylbenzene	ND		ug/kg	0.50	--	1
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

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04 Date Collected: 04/24/17 10:00

Client ID: SHORELINE STOCKPILE #5D Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	2.5	--	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	20	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	99		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 04/27/17 17:11
Analyst: MV
Percent Solids: 79%

Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.93	--	1
Chloroform	ND		ug/kg	0.93	--	1
Carbon tetrachloride	ND		ug/kg	0.62	--	1
1,2-Dichloropropane	ND		ug/kg	2.2	--	1
Dibromochloromethane	ND		ug/kg	0.62	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	--	1
Tetrachloroethene	ND		ug/kg	0.62	--	1
Chlorobenzene	1.9		ug/kg	0.62	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.62	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	--	1
Bromodichloromethane	ND		ug/kg	0.62	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	--	1
1,1-Dichloropropene	ND		ug/kg	2.5	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Benzene	ND		ug/kg	0.62	--	1
Toluene	ND		ug/kg	0.93	--	1
Ethylbenzene	ND		ug/kg	0.62	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.62	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.93	--	1
Trichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05 Date Collected: 04/24/17 10:10

Client ID: SHORELINE STOCKPILE #5E Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	1.5		ug/kg	1.2	--	1
Xylenes, Total	1.5		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.62	--	1
Dibromomethane	ND		ug/kg	2.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	6.2	--	1
Acetone	ND		ug/kg	22	--	1
Carbon disulfide	ND		ug/kg	2.5	--	1
Methyl ethyl ketone	ND		ug/kg	6.2	--	1
Methyl isobutyl ketone	ND		ug/kg	6.2	--	1
2-Hexanone	ND		ug/kg	6.2	--	1
Bromochloromethane	ND		ug/kg	2.5	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	3.1	--	1
1,2-Dibromoethane	ND		ug/kg	2.5	--	1
1,3-Dichloropropane	ND		ug/kg	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Bromobenzene	ND		ug/kg	3.1	--	1
n-Butylbenzene	ND		ug/kg	0.62	--	1
sec-Butylbenzene	ND		ug/kg	0.62	--	1
tert-Butylbenzene	ND		ug/kg	2.5	--	1
o-Chlorotoluene	ND		ug/kg	2.5	--	1
p-Chlorotoluene	ND		ug/kg	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.62	--	1
p-Isopropyltoluene	1.9		ug/kg	0.62	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.62	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05 Date Collected: 04/24/17 10:10

Client ID: SHORELINE STOCKPILE #5E Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.1	--	1
Diisopropyl Ether	ND		ug/kg	2.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.5	--	1
1,4-Dioxane	ND		ug/kg	25	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/27/17 08:28
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG998400-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/27/17 08:28
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG998400-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/27/17 08:28
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG998400-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/27/17 08:28
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05 Batch: WG998400-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/27/17 08:28
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG998402-5					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/27/17 08:28
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG998402-5					
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 04/27/17 08:28
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03 Batch: WG998402-5					
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Diethyl ether	ND		ug/kg	250	--
Diisopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	2000	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Halothane	ND		ug/kg	2000	--
Ethyl Acetate	ND		ug/kg	1000	--
Freon-113	ND		ug/kg	1000	--
Vinyl acetate	ND		ug/kg	500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG998400-3 WG998400-4								
Methylene chloride	94		91		70-130	3		20
1,1-Dichloroethane	95		94		70-130	1		20
Chloroform	93		95		70-130	2		20
Carbon tetrachloride	94		92		70-130	2		20
1,2-Dichloropropane	96		93		70-130	3		20
Dibromochloromethane	81		84		70-130	4		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Tetrachloroethene	93		90		70-130	3		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	104		103		70-130	1		20
1,2-Dichloroethane	95		94		70-130	1		20
1,1,1-Trichloroethane	95		93		70-130	2		20
Bromodichloromethane	90		87		70-130	3		20
trans-1,3-Dichloropropene	91		90		70-130	1		20
cis-1,3-Dichloropropene	93		93		70-130	0		20
1,1-Dichloropropene	99		97		70-130	2		20
Bromoform	73		74		70-130	1		20
1,1,2,2-Tetrachloroethane	96		95		70-130	1		20
Benzene	99		97		70-130	2		20
Toluene	96		93		70-130	3		20
Ethylbenzene	96		94		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG998400-3 WG998400-4								
Chloromethane	112		114		70-130	2		20
Bromomethane	98		106		70-130	8		20
Vinyl chloride	106		105		70-130	1		20
Chloroethane	99		100		70-130	1		20
1,1-Dichloroethene	84		84		70-130	0		20
trans-1,2-Dichloroethene	97		94		70-130	3		20
Trichloroethene	96		92		70-130	4		20
1,2-Dichlorobenzene	86		85		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	89		89		70-130	0		20
p/m-Xylene	98		96		70-130	2		20
o-Xylene	98		96		70-130	2		20
cis-1,2-Dichloroethene	93		92		70-130	1		20
Dibromomethane	92		92		70-130	0		20
1,4-Dichlorobutane	92		90		70-130	2		20
1,2,3-Trichloropropane	98		97		70-130	1		20
Styrene	94		92		70-130	2		20
Dichlorodifluoromethane	105		104		70-130	1		20
Acetone	110		110		70-130	0		20
Carbon disulfide	**64**	Q	**55**	Q	70-130	15		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG998400-3 WG998400-4								
Methyl ethyl ketone	101		108		70-130	7		20
Methyl isobutyl ketone	92		92		70-130	0		20
2-Hexanone	106		106		70-130	0		20
Ethyl methacrylate	89		89		70-130	0		20
Acrylonitrile	99		96		70-130	3		20
Bromochloromethane	93		90		70-130	3		20
Tetrahydrofuran	107		110		70-130	3		20
2,2-Dichloropropane	96		95		70-130	1		20
1,2-Dibromoethane	88		89		70-130	1		20
1,3-Dichloropropane	95		94		70-130	1		20
1,1,1,2-Tetrachloroethane	84		85		70-130	1		20
Bromobenzene	85		85		70-130	0		20
n-Butylbenzene	102		101		70-130	1		20
sec-Butylbenzene	97		96		70-130	1		20
tert-Butylbenzene	94		91		70-130	3		20
o-Chlorotoluene	93		92		70-130	1		20
p-Chlorotoluene	93		91		70-130	2		20
1,2-Dibromo-3-chloropropane	75		76		70-130	1		20
Hexachlorobutadiene	86		85		70-130	1		20
Isopropylbenzene	96		94		70-130	2		20
p-Isopropyltoluene	95		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG998400-3 WG998400-4								
Naphthalene	85		86		70-130	1		20
n-Propylbenzene	99		98		70-130	1		20
1,2,3-Trichlorobenzene	87		87		70-130	0		20
1,2,4-Trichlorobenzene	91		90		70-130	1		20
1,3,5-Trimethylbenzene	95		93		70-130	2		20
1,2,4-Trimethylbenzene	93		91		70-130	2		20
trans-1,4-Dichloro-2-butene	84		94		70-130	11		20
Diethyl ether	96		98		70-130	2		20
Diisopropyl Ether	105		108		70-130	3		20
Ethyl-Tert-Butyl-Ether	91		93		70-130	2		20
Tertiary-Amyl Methyl Ether	91		90		70-130	1		20
1,4-Dioxane	93		90		70-130	3		20
2-Chloroethylvinyl ether	**191**	Q	**194**	Q	70-130	2		20
Halothane	90		91		70-130	1		20
Ethyl Acetate	111		110		70-130	1		20
Freon-113	92		80		70-130	14		20
Vinyl acetate	96		98		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG998400-3 WG998400-4								

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG998402-3 WG998402-4								
Methylene chloride	94		91		70-130	3		20
1,1-Dichloroethane	95		94		70-130	1		20
Chloroform	93		95		70-130	2		20
Carbon tetrachloride	94		92		70-130	2		20
1,2-Dichloropropane	96		93		70-130	3		20
Dibromochloromethane	81		84		70-130	4		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Tetrachloroethene	93		90		70-130	3		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	104		103		70-130	1		20
1,2-Dichloroethane	95		94		70-130	1		20
1,1,1-Trichloroethane	95		93		70-130	2		20
Bromodichloromethane	90		87		70-130	3		20
trans-1,3-Dichloropropene	91		90		70-130	1		20
cis-1,3-Dichloropropene	93		93		70-130	0		20
1,1-Dichloropropene	99		97		70-130	2		20
Bromoform	73		74		70-130	1		20
1,1,2,2-Tetrachloroethane	96		95		70-130	1		20
Benzene	99		97		70-130	2		20
Toluene	96		93		70-130	3		20
Ethylbenzene	96		94		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG998402-3 WG998402-4								
Chloromethane	112		114		70-130	2		20
Bromomethane	98		106		70-130	8		20
Vinyl chloride	106		105		70-130	1		20
Chloroethane	99		100		70-130	1		20
1,1-Dichloroethene	84		84		70-130	0		20
trans-1,2-Dichloroethene	97		94		70-130	3		20
Trichloroethene	96		92		70-130	4		20
1,2-Dichlorobenzene	86		85		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	89		89		70-130	0		20
p/m-Xylene	98		96		70-130	2		20
o-Xylene	98		96		70-130	2		20
cis-1,2-Dichloroethene	93		92		70-130	1		20
Dibromomethane	92		92		70-130	0		20
1,2,3-Trichloropropane	98		97		70-130	1		20
Styrene	94		92		70-130	2		20
Dichlorodifluoromethane	105		104		70-130	1		20
Acetone	110		110		70-130	0		20
Carbon disulfide	**64**	Q	**55**	Q	70-130	15		20
Methyl ethyl ketone	101		108		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG998402-3 WG998402-4								
Methyl isobutyl ketone	92		92		70-130	0		20
2-Hexanone	106		106		70-130	0		20
Bromochloromethane	93		90		70-130	3		20
Tetrahydrofuran	107		110		70-130	3		20
2,2-Dichloropropane	96		95		70-130	1		20
1,2-Dibromoethane	88		89		70-130	1		20
1,3-Dichloropropane	95		94		70-130	1		20
1,1,1,2-Tetrachloroethane	84		85		70-130	1		20
Bromobenzene	85		85		70-130	0		20
n-Butylbenzene	102		101		70-130	1		20
sec-Butylbenzene	97		96		70-130	1		20
tert-Butylbenzene	94		91		70-130	3		20
o-Chlorotoluene	93		92		70-130	1		20
p-Chlorotoluene	93		91		70-130	2		20
1,2-Dibromo-3-chloropropane	75		76		70-130	1		20
Hexachlorobutadiene	86		85		70-130	1		20
Isopropylbenzene	96		94		70-130	2		20
p-Isopropyltoluene	95		94		70-130	1		20
Naphthalene	85		86		70-130	1		20
n-Propylbenzene	99		98		70-130	1		20
1,2,3-Trichlorobenzene	87		87		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03 Batch: WG998402-3 WG998402-4								
1,2,4-Trichlorobenzene	91		90		70-130	1		20
1,3,5-Trimethylbenzene	95		93		70-130	2		20
1,2,4-Trimethylbenzene	93		91		70-130	2		20
Diethyl ether	96		98		70-130	2		20
Diisopropyl Ether	105		108		70-130	3		20
Ethyl-Tert-Butyl-Ether	91		93		70-130	2		20
Tertiary-Amyl Methyl Ether	91		90		70-130	1		20
1,4-Dioxane	93		90		70-130	3		20
2-Chloroethylvinyl ether	**191**	Q	**194**	Q	70-130	2		20
Halothane	90		91		70-130	1		20
Ethyl Acetate	111		110		70-130	1		20
Freon-113	92		80		70-130	14		20
Vinyl acetate	96		98		70-130	2		20

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

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/28/17 00:49
Analyst: PS
Percent Solids: 82%

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/27/17 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	1800		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	10000	E	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	1300		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	4600		ug/kg	120	--	1
Benzo(a)pyrene	4000		ug/kg	160	--	1
Benzo(b)fluoranthene	5000		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01 Date Collected: 04/24/17 09:30

Client ID: SHORELINE STOCKPILE #5A Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	1800		ug/kg	120	--	1
Chrysene	3600		ug/kg	120	--	1
Acenaphthylene	170		ug/kg	160	--	1
Anthracene	3400		ug/kg	120	--	1
Benzo(ghi)perylene	1800		ug/kg	160	--	1
Fluorene	1600		ug/kg	200	--	1
Phenanthrene	8300	E	ug/kg	120	--	1
Dibenzo(a,h)anthracene	510		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	1900		ug/kg	160	--	1
Pyrene	7500		ug/kg	120	--	1
Aniline	ND		ug/kg	240	--	1
4-Chloroaniline	ND		ug/kg	200	--	1
Dibenzofuran	1000		ug/kg	200	--	1
2-Methylnaphthalene	720		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		30-130
Phenol-d6	74		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	55		30-130
2,4,6-Tribromophenol	59		30-130
4-Terphenyl-d14	46		30-130

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01 D
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/28/17 13:08
Analyst: PS
Percent Solids: 82%

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/27/17 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Fluoranthene	9800		ug/kg	240	--	2
Phenanthrene	8800		ug/kg	240	--	2

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/28/17 13:47
Analyst: CB
Percent Solids: 82%

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/27/17 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	340		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	3400		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	210	--	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	3400		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	1300		ug/kg	120	--	1
Benzo(a)pyrene	1000		ug/kg	160	--	1
Benzo(b)fluoranthene	1400		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02 Date Collected: 04/24/17 09:40

Client ID: SHORELINE STOCKPILE #5B Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	460		ug/kg	120	--	1
Chrysene	1100		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	760		ug/kg	120	--	1
Benzo(ghi)perylene	480		ug/kg	160	--	1
Fluorene	290		ug/kg	200	--	1
Phenanthrene	2100		ug/kg	120	--	1
Dibenzo(a,h)anthracene	150		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	630		ug/kg	160	--	1
Pyrene	2700		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	950	--	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	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		30-130
Phenol-d6	81		30-130
Nitrobenzene-d5	79		30-130
2-Fluorobiphenyl	62		30-130
2,4,6-Tribromophenol	107		30-130
4-Terphenyl-d14	58		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/28/17 01:41
Analyst: PS
Percent Solids: 79%

Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/27/17 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	750		ug/kg	160	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	3400		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	160	--	1
Isophorone	ND		ug/kg	180	--	1
Naphthalene	720		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	1000		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	1400		ug/kg	120	--	1
Benzo(a)pyrene	1200		ug/kg	160	--	1
Benzo(b)fluoranthene	1500		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03 Date Collected: 04/24/17 09:50

Client ID: SHORELINE STOCKPILE #5C Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	510		ug/kg	120	--	1
Chrysene	1200		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	1200		ug/kg	120	--	1
Benzo(ghi)perylene	540		ug/kg	160	--	1
Fluorene	690		ug/kg	210	--	1
Phenanthrene	3200		ug/kg	120	--	1
Dibenzo(a,h)anthracene	150		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	620		ug/kg	160	--	1
Pyrene	2500		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	480		ug/kg	210	--	1
2-Methylnaphthalene	400		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	180	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	440	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	990	--	1
Pentachlorophenol	ND		ug/kg	410	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		30-130
Phenol-d6	73		30-130
Nitrobenzene-d5	77		30-130
2-Fluorobiphenyl	68		30-130
2,4,6-Tribromophenol	63		30-130
4-Terphenyl-d14	58		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/28/17 02:06
Analyst: PS
Percent Solids: 78%

Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/27/17 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	170		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	1900		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	1100		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	800		ug/kg	130	--	1
Benzo(a)pyrene	690		ug/kg	170	--	1
Benzo(b)fluoranthene	870		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04 Date Collected: 04/24/17 10:00

Client ID: SHORELINE STOCKPILE #5D Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	320		ug/kg	130	--	1
Chrysene	690		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	400		ug/kg	130	--	1
Benzo(ghi)perylene	330		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	1100		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	390		ug/kg	170	--	1
Pyrene	1400		ug/kg	130	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	460	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		30-130
Phenol-d6	74		30-130
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	59		30-130
2,4,6-Tribromophenol	59		30-130
4-Terphenyl-d14	47		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 04/28/17 02:32
Analyst: PS
Percent Solids: 79%

Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/27/17 11:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	320		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	1400		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	400		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	520		ug/kg	120	--	1
Benzo(a)pyrene	400		ug/kg	170	--	1
Benzo(b)fluoranthene	510		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1712854

Project Number: 171521.52 **Report Date:** 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05 Date Collected: 04/24/17 10:10

Client ID: SHORELINE STOCKPILE #5E Date Received: 04/24/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	190		ug/kg	120	--	1
Chrysene	420		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	510		ug/kg	120	--	1
Benzo(ghi)perylene	180		ug/kg	170	--	1
Fluorene	310		ug/kg	210	--	1
Phenanthrene	1400		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	240		ug/kg	170	--	1
Pyrene	1000		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		30-130
Phenol-d6	73		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	56		30-130
2,4,6-Tribromophenol	57		30-130
4-Terphenyl-d14	45		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 04/27/17 23:33
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/26/17 19:23

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-05 Batch: WG997889-1					
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: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 04/27/17 23:33
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/26/17 19:23

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-05 Batch: WG997889-1					
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: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 04/27/17 23:33
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 04/26/17 19:23

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-05 Batch: WG997889-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		30-130
Phenol-d6	79		30-130
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	72		30-130
2,4,6-Tribromophenol	59		30-130
4-Terphenyl-d14	78		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG997889-2 WG997889-3								
Acenaphthene	87		82		40-140	6		30
1,2,4-Trichlorobenzene	104		84		40-140	21		30
Hexachlorobenzene	83		81		40-140	2		30
Bis(2-chloroethyl)ether	101		80		40-140	23		30
2-Chloronaphthalene	92		82		40-140	11		30
1,2-Dichlorobenzene	102		80		40-140	24		30
1,3-Dichlorobenzene	98		77		40-140	24		30
1,4-Dichlorobenzene	99		78		40-140	24		30
3,3'-Dichlorobenzidine	70		69		40-140	1		30
2,4-Dinitrotoluene	95		94		40-140	1		30
2,6-Dinitrotoluene	104		95		40-140	9		30
Azobenzene	93		90		40-140	3		30
Fluoranthene	90		88		40-140	2		30
4-Bromophenyl phenyl ether	85		82		40-140	4		30
Bis(2-chloroisopropyl)ether	122		98		40-140	22		30
Bis(2-chloroethoxy)methane	110		88		40-140	22		30
Hexachlorobutadiene	88		80		40-140	10		30
Hexachloroethane	103		80		40-140	25		30
Isophorone	113		92		40-140	20		30
Naphthalene	92		82		40-140	11		30
Nitrobenzene	110		87		40-140	23		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG997889-2 WG997889-3								
Bis(2-ethylhexyl)phthalate	103		101		40-140	2		30
Butyl benzyl phthalate	100		96		40-140	4		30
Di-n-butylphthalate	99		98		40-140	1		30
Di-n-octylphthalate	103		99		40-140	4		30
Diethyl phthalate	88		86		40-140	2		30
Dimethyl phthalate	95		88		40-140	8		30
Benzo(a)anthracene	91		88		40-140	3		30
Benzo(a)pyrene	106		99		40-140	7		30
Benzo(b)fluoranthene	99		90		40-140	10		30
Benzo(k)fluoranthene	97		94		40-140	3		30
Chrysene	88		87		40-140	1		30
Acenaphthylene	98		87		40-140	12		30
Anthracene	92		90		40-140	2		30
Benzo(ghi)perylene	94		90		40-140	4		30
Fluorene	89		86		40-140	3		30
Phenanthrene	86		84		40-140	2		30
Dibenzo(a,h)anthracene	93		88		40-140	6		30
Indeno(1,2,3-cd)pyrene	82		79		40-140	4		30
Pyrene	89		87		40-140	2		30
Aniline	90		74		40-140	20		30
4-Chloroaniline	96		88		40-140	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG997889-2 WG997889-3								
Dibenzofuran	86		83		40-140	4		30
2-Methylnaphthalene	93		84		40-140	10		30
Acetophenone	117		93		40-140	23		30
2,4,6-Trichlorophenol	100		91		30-130	9		30
2-Chlorophenol	110		89		30-130	21		30
2,4-Dichlorophenol	116		94		30-130	21		30
2,4-Dimethylphenol	130		105		30-130	21		30
2-Nitrophenol	118		94		30-130	23		30
4-Nitrophenol	89		85		30-130	5		30
2,4-Dinitrophenol	60		66		30-130	10		30
Pentachlorophenol	76		73		30-130	4		30
Phenol	114		91		30-130	22		30
2-Methylphenol	117		95		30-130	21		30
3-Methylphenol/4-Methylphenol	111		90		30-130	21		30
2,4,5-Trichlorophenol	102		96		30-130	6		30
Pyridine	60		46		30-130	26		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-05 Batch: WG997889-2 WG997889-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	107		85		30-130
Phenol-d6	109		88		30-130
Nitrobenzene-d5	109		87		30-130
2-Fluorobiphenyl	92		82		30-130
2,4,6-Tribromophenol	72		71		30-130
4-Terphenyl-d14	81		80		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01 D
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/27/17 18:16
Analyst: EK
Percent Solids: 82%

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 13:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	820000		ug/kg	199000	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02 D
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/27/17 17:44
Analyst: EK
Percent Solids: 82%

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 13:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	354000		ug/kg	79000	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/26/17 18:22
Analyst: EK
Percent Solids: 79%

Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 13:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	570000		ug/kg	40700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88		40-140

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/26/17 18:55
Analyst: MEO
Percent Solids: 78%

Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 13:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	521000		ug/kg	42400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 04/26/17 19:28
Analyst: EK
Percent Solids: 79%

Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 13:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	306000		ug/kg	41100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 04/26/17 15:39
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 04/25/17 13:54

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-05 Batch: WG997373-1					
TPH	ND		ug/kg	31500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-05 Batch: WG997373-2								
TPH	76		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	79				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG997373-3 QC Sample: L1712854-04 Client ID: SHORELINE STOCKPILE #5D						
TPH	521000	652000	ug/kg	22		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		87		40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/27/17 07:48
Analyst: HT
Percent Solids: 82%

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 12:41
Cleanup Method: EPA 3665A
Cleanup Date: 04/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.3	--	1	A
Aroclor 1221	ND		ug/kg	39.3	--	1	A
Aroclor 1232	ND		ug/kg	39.3	--	1	A
Aroclor 1242	ND		ug/kg	39.3	--	1	A
Aroclor 1248	ND		ug/kg	39.3	--	1	A
Aroclor 1254	ND		ug/kg	39.3	--	1	B
Aroclor 1260	ND		ug/kg	39.3	--	1	B
Aroclor 1262	ND		ug/kg	39.3	--	1	A
Aroclor 1268	ND		ug/kg	39.3	--	1	A
PCBs, Total	ND		ug/kg	39.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/27/17 08:00
Analyst: HT
Percent Solids: 82%

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 12:41
Cleanup Method: EPA 3665A
Cleanup Date: 04/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.4	--	1	A
Aroclor 1221	ND		ug/kg	39.4	--	1	A
Aroclor 1232	ND		ug/kg	39.4	--	1	A
Aroclor 1242	ND		ug/kg	39.4	--	1	A
Aroclor 1248	ND		ug/kg	39.4	--	1	A
Aroclor 1254	122		ug/kg	39.4	--	1	B
Aroclor 1260	50.3		ug/kg	39.4	--	1	B
Aroclor 1262	ND		ug/kg	39.4	--	1	A
Aroclor 1268	ND		ug/kg	39.4	--	1	A
PCBs, Total	172		ug/kg	39.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/27/17 08:12
Analyst: HT
Percent Solids: 79%

Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 12:41
Cleanup Method: EPA 3665A
Cleanup Date: 04/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	--	1	A
Aroclor 1221	ND		ug/kg	41.0	--	1	A
Aroclor 1232	ND		ug/kg	41.0	--	1	A
Aroclor 1242	ND		ug/kg	41.0	--	1	A
Aroclor 1248	ND		ug/kg	41.0	--	1	A
Aroclor 1254	47.7		ug/kg	41.0	--	1	A
Aroclor 1260	ND		ug/kg	41.0	--	1	B
Aroclor 1262	ND		ug/kg	41.0	--	1	A
Aroclor 1268	ND		ug/kg	41.0	--	1	A
PCBs, Total	47.7		ug/kg	41.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/27/17 08:25
Analyst: HT
Percent Solids: 78%

Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 12:41
Cleanup Method: EPA 3665A
Cleanup Date: 04/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.4	--	1	A
Aroclor 1221	ND		ug/kg	42.4	--	1	A
Aroclor 1232	ND		ug/kg	42.4	--	1	A
Aroclor 1242	ND		ug/kg	42.4	--	1	A
Aroclor 1248	ND		ug/kg	42.4	--	1	A
Aroclor 1254	222		ug/kg	42.4	--	1	B
Aroclor 1260	165		ug/kg	42.4	--	1	B
Aroclor 1262	ND		ug/kg	42.4	--	1	A
Aroclor 1268	ND		ug/kg	42.4	--	1	A
PCBs, Total	387		ug/kg	42.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: WYNN EVERETT
Lab Number: L1712854
Project Number: 171521.52
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 04/27/17 08:37
Analyst: HT
Percent Solids: 79%

Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 12:41
Cleanup Method: EPA 3665A
Cleanup Date: 04/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.2	--	1	A
Aroclor 1221	ND		ug/kg	40.2	--	1	A
Aroclor 1232	ND		ug/kg	40.2	--	1	A
Aroclor 1242	ND		ug/kg	40.2	--	1	A
Aroclor 1248	ND		ug/kg	40.2	--	1	A
Aroclor 1254	66.2		ug/kg	40.2	--	1	A
Aroclor 1260	ND		ug/kg	40.2	--	1	B
Aroclor 1262	ND		ug/kg	40.2	--	1	A
Aroclor 1268	ND		ug/kg	40.2	--	1	A
PCBs, Total	66.2		ug/kg	40.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 04/27/17 07:11
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 04/25/17 12:41
Cleanup Method: EPA 3665A
Cleanup Date: 04/25/17
Cleanup Method: EPA 3660B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-05 Batch: WG997344-1						
Aroclor 1016	ND		ug/kg	33.2	--	A
Aroclor 1221	ND		ug/kg	33.2	--	A
Aroclor 1232	ND		ug/kg	33.2	--	A
Aroclor 1242	ND		ug/kg	33.2	--	A
Aroclor 1248	ND		ug/kg	33.2	--	A
Aroclor 1260	ND		ug/kg	33.2	--	A
Aroclor 1262	ND		ug/kg	33.2	--	A
Aroclor 1268	ND		ug/kg	33.2	--	A
Aroclor 1254	ND		ug/kg	33.2	--	B
PCBs, Total	ND		ug/kg	33.2	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	54		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-05 Batch: WG997344-2 WG997344-3									
Aroclor 1016	70		57		40-140	20		30	A
Aroclor 1260	73		58		40-140	23		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		53		30-150	A
Decachlorobiphenyl	54		44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		51		30-150	B
Decachlorobiphenyl	51		41		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/26/17 22:12
Analyst: GP
Percent Solids: 82%

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 11:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.66	--	1	A
Lindane	ND		ug/kg	3.22	--	1	A
Alpha-BHC	ND		ug/kg	4.02	--	1	A
Beta-BHC	ND		ug/kg	9.66	--	1	A
Heptachlor	ND		ug/kg	4.83	--	1	A
Aldrin	ND		ug/kg	9.66	--	1	A
Heptachlor epoxide	ND		ug/kg	18.1	--	1	A
Endrin	5.01	P	ug/kg	4.02	--	1	A
Endrin ketone	17.8		ug/kg	9.66	--	1	B
Dieldrin	6.47		ug/kg	6.04	--	1	A
4,4'-DDE	ND		ug/kg	9.66	--	1	B
4,4'-DDD	ND		ug/kg	9.66	--	1	A
4,4'-DDT	19.7		ug/kg	18.1	--	1	B
Endosulfan I	ND		ug/kg	9.66	--	1	A
Endosulfan II	ND		ug/kg	9.66	--	1	B
Endosulfan sulfate	ND		ug/kg	4.02	--	1	A
Methoxychlor	ND		ug/kg	18.1	--	1	A
Chlordane	ND		ug/kg	78.5	--	1	A
Hexachlorobenzene	ND		ug/kg	9.66	--	1	A
Toxaphene	ND		ug/kg	181	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/26/17 20:55
Analyst: DM
Percent Solids: 82%
Methylation Date: 04/26/17 04:37

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/25/17 16:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4000	--	1	A
MCPA	ND		ug/kg	4000	--	1	A
Dalapon	ND		ug/kg	40	--	1	A
Dicamba	ND		ug/kg	40	--	1	A
Dichloroprop	ND		ug/kg	40	--	1	A
2,4-D	ND		ug/kg	40	--	1	A
2,4-DB	ND		ug/kg	40	--	1	A
2,4,5-T	ND		ug/kg	40	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	40	--	1	A
Dinoseb	ND		ug/kg	40	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	68		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/26/17 22:28
Analyst: GP
Percent Solids: 82%

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 11:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.43	--	1	A
Lindane	ND		ug/kg	3.14	--	1	A
Alpha-BHC	ND		ug/kg	3.93	--	1	A
Beta-BHC	ND		ug/kg	9.43	--	1	A
Heptachlor	ND		ug/kg	4.72	--	1	A
Aldrin	ND		ug/kg	9.43	--	1	A
Heptachlor epoxide	ND		ug/kg	17.7	--	1	A
Endrin	ND		ug/kg	3.93	--	1	A
Endrin ketone	ND		ug/kg	9.43	--	1	A
Dieldrin	10.6	P	ug/kg	5.90	--	1	B
4,4'-DDE	ND		ug/kg	9.43	--	1	A
4,4'-DDD	ND		ug/kg	9.43	--	1	A
4,4'-DDT	23.4	P	ug/kg	17.7	--	1	B
Endosulfan I	ND		ug/kg	9.43	--	1	A
Endosulfan II	ND		ug/kg	9.43	--	1	B
Endosulfan sulfate	ND		ug/kg	3.93	--	1	A
Methoxychlor	ND		ug/kg	17.7	--	1	A
Chlordane	ND		ug/kg	76.6	--	1	A
Hexachlorobenzene	ND		ug/kg	9.43	--	1	A
Toxaphene	ND		ug/kg	177	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/26/17 21:15
Analyst: DM
Percent Solids: 82%
Methylation Date: 04/26/17 04:37

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/25/17 16:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4000	--	1	A
MCPA	ND		ug/kg	4000	--	1	A
Dalapon	ND		ug/kg	40	--	1	A
Dicamba	ND		ug/kg	40	--	1	A
Dichloroprop	ND		ug/kg	40	--	1	A
2,4-D	ND		ug/kg	40	--	1	A
2,4-DB	ND		ug/kg	40	--	1	A
2,4,5-T	ND		ug/kg	40	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	40	--	1	A
Dinoseb	ND		ug/kg	40	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	74		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/26/17 22:44
Analyst: GP
Percent Solids: 79%

Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 11:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.90	--	1	A
Lindane	ND		ug/kg	3.30	--	1	A
Alpha-BHC	ND		ug/kg	4.13	--	1	A
Beta-BHC	ND		ug/kg	9.90	--	1	A
Heptachlor	ND		ug/kg	4.95	--	1	A
Aldrin	ND		ug/kg	9.90	--	1	A
Heptachlor epoxide	ND		ug/kg	18.6	--	1	A
Endrin	ND		ug/kg	4.13	--	1	A
Endrin ketone	ND		ug/kg	9.90	--	1	B
Dieldrin	ND		ug/kg	6.19	--	1	B
4,4'-DDE	ND		ug/kg	9.90	--	1	A
4,4'-DDD	ND		ug/kg	9.90	--	1	A
4,4'-DDT	ND		ug/kg	18.6	--	1	B
Endosulfan I	ND		ug/kg	9.90	--	1	A
Endosulfan II	ND		ug/kg	9.90	--	1	B
Endosulfan sulfate	ND		ug/kg	4.13	--	1	A
Methoxychlor	ND		ug/kg	18.6	--	1	A
Chlordane	ND		ug/kg	80.5	--	1	A
Hexachlorobenzene	ND		ug/kg	9.90	--	1	A
Toxaphene	ND		ug/kg	186	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/26/17 21:34
Analyst: DM
Percent Solids: 79%
Methylation Date: 04/26/17 04:37

Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/25/17 16:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4100	--	1	A
MCPA	ND		ug/kg	4100	--	1	A
Dalapon	ND		ug/kg	41	--	1	A
Dicamba	ND		ug/kg	41	--	1	A
Dichloroprop	ND		ug/kg	41	--	1	A
2,4-D	ND		ug/kg	41	--	1	A
2,4-DB	ND		ug/kg	41	--	1	A
2,4,5-T	ND		ug/kg	41	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	41	--	1	A
Dinoseb	ND		ug/kg	41	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	87		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/26/17 23:00
Analyst: GP
Percent Solids: 78%

Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 11:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.2	--	1	A
Lindane	ND		ug/kg	3.38	--	1	A
Alpha-BHC	ND		ug/kg	4.23	--	1	A
Beta-BHC	ND		ug/kg	10.2	--	1	A
Heptachlor	ND		ug/kg	5.08	--	1	A
Aldrin	ND		ug/kg	10.2	--	1	A
Heptachlor epoxide	ND		ug/kg	19.0	--	1	A
Endrin	ND		ug/kg	4.23	--	1	A
Endrin ketone	ND		ug/kg	10.2	--	1	A
Dieldrin	ND		ug/kg	6.35	--	1	A
4,4'-DDE	ND		ug/kg	10.2	--	1	B
4,4'-DDD	ND		ug/kg	10.2	--	1	A
4,4'-DDT	ND		ug/kg	19.0	--	1	B
Endosulfan I	ND		ug/kg	10.2	--	1	A
Endosulfan II	ND		ug/kg	10.2	--	1	B
Endosulfan sulfate	ND		ug/kg	4.23	--	1	A
Methoxychlor	ND		ug/kg	19.0	--	1	A
Chlordane	ND		ug/kg	82.5	--	1	A
Hexachlorobenzene	ND		ug/kg	10.2	--	1	A
Toxaphene	ND		ug/kg	190	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/29/17 12:40
Analyst: DM
Percent Solids: 78%
Methylation Date: 04/29/17 03:43

Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/28/17 15:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4200	--	1	A
MCPA	ND		ug/kg	4200	--	1	A
Dalapon	ND		ug/kg	42	--	1	A
Dicamba	ND		ug/kg	42	--	1	A
Dichloroprop	ND		ug/kg	42	--	1	A
2,4-D	ND		ug/kg	42	--	1	A
2,4-DB	ND		ug/kg	42	--	1	A
2,4,5-T	ND		ug/kg	42	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	42	--	1	A
Dinoseb	ND		ug/kg	42	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	77		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 04/26/17 23:16
Analyst: GP
Percent Solids: 79%

Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 04/25/17 11:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.0	--	1	A
Lindane	ND		ug/kg	3.35	--	1	A
Alpha-BHC	ND		ug/kg	4.18	--	1	A
Beta-BHC	ND		ug/kg	10.0	--	1	A
Heptachlor	ND		ug/kg	5.02	--	1	A
Aldrin	ND		ug/kg	10.0	--	1	A
Heptachlor epoxide	ND		ug/kg	18.8	--	1	A
Endrin	ND		ug/kg	4.18	--	1	A
Endrin ketone	11.8		ug/kg	10.0	--	1	B
Dieldrin	ND		ug/kg	6.28	--	1	A
4,4'-DDE	ND		ug/kg	10.0	--	1	A
4,4'-DDD	ND		ug/kg	10.0	--	1	A
4,4'-DDT	ND		ug/kg	18.8	--	1	B
Endosulfan I	ND		ug/kg	10.0	--	1	A
Endosulfan II	ND		ug/kg	10.0	--	1	A
Endosulfan sulfate	ND		ug/kg	4.18	--	1	A
Methoxychlor	ND		ug/kg	18.8	--	1	A
Chlordane	ND		ug/kg	81.6	--	1	A
Hexachlorobenzene	ND		ug/kg	10.0	--	1	A
Toxaphene	ND		ug/kg	188	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 04/29/17 12:59
Analyst: DM
Percent Solids: 79%
Methylation Date: 04/29/17 03:43

Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 04/28/17 15:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4100	--	1	A
MCPA	ND		ug/kg	4100	--	1	A
Dalapon	ND		ug/kg	41	--	1	A
Dicamba	ND		ug/kg	41	--	1	A
Dichloroprop	ND		ug/kg	41	--	1	A
2,4-D	ND		ug/kg	41	--	1	A
2,4-DB	ND		ug/kg	41	--	1	A
2,4,5-T	ND		ug/kg	41	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	41	--	1	A
Dinoseb	ND		ug/kg	41	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	67		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 04/26/17 20:52
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 04/25/17 11:47
Cleanup Method: EPA 3620B
Cleanup Date: 04/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-05 Batch: WG997328-1						
Delta-BHC	ND		ug/kg	7.70	--	A
Lindane	ND		ug/kg	2.56	--	A
Alpha-BHC	ND		ug/kg	3.21	--	A
Beta-BHC	ND		ug/kg	7.70	--	A
Heptachlor	ND		ug/kg	3.85	--	A
Aldrin	ND		ug/kg	7.70	--	A
Heptachlor epoxide	ND		ug/kg	14.4	--	A
Endrin	ND		ug/kg	3.21	--	A
Endrin ketone	ND		ug/kg	7.70	--	A
Dieldrin	ND		ug/kg	4.81	--	A
4,4'-DDE	ND		ug/kg	7.70	--	A
4,4'-DDD	ND		ug/kg	7.70	--	A
4,4'-DDT	ND		ug/kg	14.4	--	A
Endosulfan I	ND		ug/kg	7.70	--	A
Endosulfan II	ND		ug/kg	7.70	--	A
Endosulfan sulfate	ND		ug/kg	3.21	--	A
Methoxychlor	ND		ug/kg	14.4	--	A
Chlordane	ND		ug/kg	62.5	--	A
Hexachlorobenzene	ND		ug/kg	7.70	--	A
Toxaphene	ND		ug/kg	144	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 04/26/17 19:56
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 04/25/17 16:59

Methylation Date: 04/26/17 04:37

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-03 Batch: WG997427-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	76		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 04/29/17 11:41
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 04/28/17 15:52

Methylation Date: 04/29/17 03:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 04-05 Batch: WG998622-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	69		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-05 Batch: WG997328-2 WG997328-3									
Delta-BHC	91		84		40-140	8		30	A
Lindane	91		83		40-140	9		30	A
Alpha-BHC	92		86		40-140	7		30	A
Beta-BHC	96		84		40-140	13		30	A
Heptachlor	92		86		40-140	7		30	A
Aldrin	91		85		40-140	7		30	A
Heptachlor epoxide	89		81		40-140	9		30	A
Endrin	98		88		40-140	11		30	A
Endrin ketone	103		83		40-140	22		30	A
Dieldrin	102		91		40-140	11		30	A
4,4'-DDE	92		84		40-140	9		30	A
4,4'-DDD	90		84		40-140	7		30	A
4,4'-DDT	111		98		40-140	12		30	A
Endosulfan I	89		84		40-140	6		30	A
Endosulfan II	93		82		40-140	13		30	A
Endosulfan sulfate	83		68		40-140	20		30	A
Methoxychlor	103		89		40-140	15		30	A
Hexachlorobenzene	77		75		40-140	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-05 Batch: WG997328-2 WG997328-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		87		30-150	B
Decachlorobiphenyl	79		74		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		80		30-150	A
Decachlorobiphenyl	90		81		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-05 Batch: WG997328-4 WG997328-5									
Toxaphene	94		111		40-140	17		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		90		30-150	B
Decachlorobiphenyl	71		71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		86		30-150	A
Decachlorobiphenyl	86		92		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-03 Batch: WG997427-2 WG997427-3									
MCPP	111		127		40-140	13		30	A
MCPA	85		99		40-140	15		30	A
Dalapon	68		75		40-140	10		30	A
Dicamba	76		86		40-140	12		30	A
Dichloroprop	107		123		40-140	14		30	A
2,4-D	85		92		40-140	8		30	A
2,4-DB	95		101		40-140	6		30	A
2,4,5-T	80		90		40-140	12		30	A
2,4,5-TP (Silvex)	78		86		40-140	10		30	A
Dinoseb	**8**	Q	**3**	Q	40-140	**75**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	96		112		30-150	A
DCAA	74		80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 04-05 Batch: WG998622-2 WG998622-3									
MCPP	114		107		40-140	6		30	A
MCPA	88		81		40-140	8		30	A
Dalapon	68		54		40-140	23		30	A
Dicamba	76		70		40-140	8		30	A
Dichloroprop	108		106		40-140	2		30	A
2,4-D	83		82		40-140	1		30	A
2,4-DB	88		89		40-140	1		30	A
2,4,5-T	78		76		40-140	3		30	A
2,4,5-TP (Silvex)	76		73		40-140	4		30	A
Dinoseb	**6**	Q	**10**	Q	40-140	**45**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	101		90		30-150	A
DCAA	71		70		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 82%

Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified

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	2.4	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Arsenic, Total	34		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Barium, Total	29		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Beryllium, Total	0.35		mg/kg	0.24	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Cadmium, Total	0.48		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Chromium, Total	17		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Lead, Total	140		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Mercury, Total	0.562		mg/kg	0.080	--	1	04/26/17 08:40	04/27/17 16:04	EPA 7471B	97,7471B	BV
Nickel, Total	12		mg/kg	1.2	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Vanadium, Total	20		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM
Zinc, Total	210		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:18	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 82%

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified

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	2.4	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Arsenic, Total	37		mg/kg	0.47	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Barium, Total	35		mg/kg	0.47	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Beryllium, Total	0.29		mg/kg	0.24	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.47	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Chromium, Total	16		mg/kg	0.47	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Lead, Total	160		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Mercury, Total	0.790		mg/kg	0.081	--	1	04/26/17 08:40	04/27/17 16:06	EPA 7471B	97,7471B	BV
Nickel, Total	10		mg/kg	1.2	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.47	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Vanadium, Total	20		mg/kg	0.47	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM
Zinc, Total	160		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:22	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified

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	2.4	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Arsenic, Total	26		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Barium, Total	26		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Beryllium, Total	0.42		mg/kg	0.24	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Chromium, Total	13		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Lead, Total	100		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Mercury, Total	0.832		mg/kg	0.082	--	1	04/26/17 08:40	04/27/17 16:07	EPA 7471B	97,7471B	BV
Nickel, Total	9.0		mg/kg	1.2	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Vanadium, Total	15		mg/kg	0.48	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM
Zinc, Total	170		mg/kg	2.4	--	1	04/25/17 21:14	04/26/17 23:26	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 78%

Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified

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	2.5	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Arsenic, Total	130		mg/kg	0.50	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Barium, Total	53		mg/kg	0.50	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Beryllium, Total	0.52		mg/kg	0.25	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.50	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Chromium, Total	25		mg/kg	0.50	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Lead, Total	170		mg/kg	2.5	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Mercury, Total	0.716		mg/kg	0.086	--	1	04/26/17 08:40	04/27/17 16:09	EPA 7471B	97,7471B	BV
Nickel, Total	15		mg/kg	1.2	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.5	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.50	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.5	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Vanadium, Total	34		mg/kg	0.50	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM
Zinc, Total	170		mg/kg	2.5	--	1	04/25/17 21:14	04/26/17 23:59	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 79%

Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified

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	2.5	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Arsenic, Total	35		mg/kg	0.50	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Barium, Total	40		mg/kg	0.50	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Beryllium, Total	0.38		mg/kg	0.25	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.50	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Chromium, Total	20		mg/kg	0.50	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Lead, Total	130		mg/kg	2.5	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Mercury, Total	0.805		mg/kg	0.083	--	1	04/26/17 08:40	04/27/17 16:11	EPA 7471B	97,7471B	BV
Nickel, Total	14		mg/kg	1.2	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.5	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.50	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.5	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Vanadium, Total	26		mg/kg	0.50	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM
Zinc, Total	130		mg/kg	2.5	--	1	04/25/17 21:14	04/27/17 00:03	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

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): 01-05 Batch: WG997460-1										
Antimony, Total	ND		mg/kg	2.0	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Arsenic, Total	ND		mg/kg	0.40	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Barium, Total	ND		mg/kg	0.40	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.20	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.40	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Chromium, Total	ND		mg/kg	0.40	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Lead, Total	ND		mg/kg	2.0	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Nickel, Total	ND		mg/kg	1.0	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Selenium, Total	ND		mg/kg	2.0	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Silver, Total	ND		mg/kg	0.40	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Thallium, Total	ND		mg/kg	2.0	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Vanadium, Total	ND		mg/kg	0.40	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM
Zinc, Total	ND		mg/kg	2.0	--	1	04/25/17 21:14	04/26/17 22:54	97,6010C	AM

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): 01-05 Batch: WG997562-1										
Mercury, Total	ND		mg/kg	0.083	--	1	04/26/17 08:40	04/27/17 10:29	97,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG997460-2 WG997460-3 SRM Lot Number: D091-540								
Antimony, Total	138		130		1-200	6		30
Arsenic, Total	96		96		80-121	0		30
Barium, Total	86		86		84-117	0		30
Beryllium, Total	99		99		83-117	0		30
Cadmium, Total	96		90		83-117	6		30
Chromium, Total	91		84		80-119	8		30
Lead, Total	96		96		82-118	0		30
Nickel, Total	93		93		83-117	0		30
Selenium, Total	90		90		79-121	0		30
Silver, Total	89		86		76-124	3		30
Thallium, Total	92		85		80-121	8		30
Vanadium, Total	87		87		78-122	0		30
Zinc, Total	93		93		82-118	0		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG997562-2 WG997562-3 SRM Lot Number: D091-540								
Mercury, Total	102		89		72-128	14		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:30
Date Received: 04/24/17
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	04/26/17 12:45	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 04/24/17 09:40
Date Received: 04/24/17
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	04/26/17 12:45	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:50
Date Received: 04/24/17
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	04/26/17 12:45	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 10:00
Date Received: 04/24/17
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	04/26/17 12:45	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 10:10
Date Received: 04/24/17
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	04/26/17 12:45	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:30
Date Received: 04/24/17
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	430		umhos/cm	10	--	1	-	04/25/17 19:25	1,9050A	AS
Solids, Total	81.7		%	0.100	NA	1	-	04/25/17 09:58	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	04/25/17 17:10	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	04/25/17 21:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:52	1,7.3	AW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:40	1,7.3	AW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:40
Date Received: 04/24/17
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	510		umhos/cm	10	--	1	-	04/25/17 19:25	1,9050A	AS
Solids, Total	81.9		%	0.100	NA	1	-	04/25/17 09:58	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	04/25/17 17:10	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	04/25/17 21:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:52	1,7.3	AW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:40	1,7.3	AW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:50
Date Received: 04/24/17
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	540		umhos/cm	10	--	1	-	04/25/17 19:25	1,9050A	AS
Solids, Total	79.3		%	0.100	NA	1	-	04/25/17 09:58	121,2540G	RI
pH (H)	7.3		SU	-	NA	1	-	04/25/17 17:10	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	04/25/17 21:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:53	1,7.3	AW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:41	1,7.3	AW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 10:00
Date Received: 04/24/17
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	810		umhos/cm	10	--	1	-	04/25/17 19:25	1,9050A	AS
Solids, Total	78.2		%	0.100	NA	1	-	04/25/17 09:58	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	04/25/17 17:10	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	04/25/17 21:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:53	1,7.3	AW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:41	1,7.3	AW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
Report Date: 04/30/17

SAMPLE RESULTS

Lab ID: L1712854-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 10:10
Date Received: 04/24/17
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	810		umhos/cm	10	--	1	-	04/25/17 19:25	1,9050A	AS
Solids, Total	79.1		%	0.100	NA	1	-	04/25/17 09:58	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	04/25/17 17:10	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	04/25/17 21:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:53	1,7.3	AW
Sulfide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:41	1,7.3	AW

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1712854
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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): 01-05 Batch: WG997258-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:51	1,7.3	AW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG997260-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	04/25/17 11:27	04/25/17 13:38	1,7.3	AW

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1712854

Report Date: 04/30/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG997258-2								
Cyanide, Reactive	66		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG997260-2								
Sulfide, Reactive	86		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG997423-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG997466-1								
Specific Conductance	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG997519-1								
Flash Point	102		-		96-104	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG997251-1 QC Sample: L1712854-01 Client ID: SHORELINE STOCKPILE #5A						
Solids, Total	81.7	81.1	%	1		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/25/2017 09:56

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712854-01A	Vial MeOH preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-01B	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-01C	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-01D	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(2)
L1712854-01E	Glass 250ml/8oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-01F	Metals Only - Glass 60mL/2oz unp	A	N/A	5.8	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)
L1712854-01G	Glass 500ml/16oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-01H	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	-
L1712854-02A	Vial MeOH preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-02B	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-02C	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-02D	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712854-02E	Glass 250ml/8oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-02F	Metals Only - Glass 60mL/2oz unp	A	N/A	5.8	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)
L1712854-02G	Glass 500ml/16oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-02H	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	-
L1712854-03A	Vial MeOH preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-03B	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-03C	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-03D	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(2)
L1712854-03E	Glass 250ml/8oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-03F	Metals Only - Glass 60mL/2oz unp	A	N/A	5.8	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: L1712854
Report Date: 04/30/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712854-03G	Glass 500ml/16oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-03H	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	-
L1712854-04A	Vial MeOH preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-04B	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-04C	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-04D	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(2)
L1712854-04E	Glass 250ml/8oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-04F	Metals Only - Glass 60mL/2oz unp	A	N/A	5.8	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)
L1712854-04G	Glass 500ml/16oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-04H	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	-
L1712854-05A	Vial MeOH preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-05B	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-05C	Vial water preserved	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(14)
L1712854-05D	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	MCP-8260HLW-10(2)
L1712854-05E	Glass 250ml/8oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1712854
Report Date: 04/30/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1712854-05F	Metals Only - Glass 60mL/2oz unp	A	N/A	5.8	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)
L1712854-05G	Glass 500ml/16oz unpreserved	A	N/A	5.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1712854-05H	Vial Large Septa unpreserved (4o	A	N/A	5.8	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1712854
Project Number:	171521.52	**Report Date:**	04/30/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1712854
Project Number:	171521.52	**Report Date:**	04/30/17

Data Qualifiers

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:**	L1712854
Project Number:	171521.52	**Report Date:**	04/30/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 4/25./17

CHAIN OF CUSTODY

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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: 4/24/17

ALPHA Job #: L1712854

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~~ WYNN EVERETT
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
TCLP 20x rule applies for MCP-14 meatals

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)

TOTAL # BOTTLES

Sample Specific Comments

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, ignt	Sulfate, Cyanide (Reactivity)						TOTAL # BOTTLES	Sample Specific Comments
12854-01	Shoreline Stockpile #5A	4/24/17	0930	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-02	Shoreline Stockpile #5B	4/24/17	0940	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-03	Shoreline Stockpile #5C	4/24/17	0950	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-04	Shoreline Stockpile #5D	4/24/17	1000	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-05	Shoreline Stockpile #5E	4/24/17	1010	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

Container Type	G	V	-	-	-	-	-	-	-	-	-	-	
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	4/24/17 @ 1247		4/24/17 1247
	4/24/17 1807		4/24/17 1807

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)

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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: 4/24/17

ALPHA Job #: L1712854

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
TCLP 20x rule applies for MCP-14 meatals

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

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
12854-01	Shoreline Stockpile #5A	4/24/17	0930	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-02	Shoreline Stockpile #5B	4/24/17	0940	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-03	Shoreline Stockpile #5C	4/24/17	0950	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-04	Shoreline Stockpile #5D	4/24/17	1000	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-05	Shoreline Stockpile #5E	4/24/17	1010	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

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

Container Type	G	V	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	4/24/17 @ 1247		4/24/17 1247
	4/24/17 1807		4/24/17 1807

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1712854
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG998400-5	**Lab File ID**	: V04170427A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 04/27/17 08:28

Client Sample No.	Lab Sample ID	Analysis Date
WG998400-3LCS	WG998400-3	04/27/17 06:44
WG998400-4LCSD	WG998400-4	04/27/17 07:10
SHORELINE STOCKPILE #5A	L1712854-01	04/27/17 15:53
SHORELINE STOCKPILE #5B	L1712854-02	04/27/17 16:19
SHORELINE STOCKPILE #5D	L1712854-04	04/27/17 16:45
SHORELINE STOCKPILE #5E	L1712854-05	04/27/17 17:11

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1712854
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG998402-5	**Lab File ID**	: V04170427A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 04/27/17 08:28

Client Sample No.	Lab Sample ID	Analysis Date
WG998402-3LCS	WG998402-3	04/27/17 06:44
WG998402-4LCSD	WG998402-4	04/27/17 07:10
SHORELINE STOCKPILE #5C	L1712854-03	04/27/17 18:03

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1712854	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 04/27/17 06:44	
Lab File ID	: V04170427A01	**Init. Calib. Date(s)**	: 04/03/17	04/03/17
Sample No	: WG998400-2	**Init. Calib. Times**	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	112	0
Dichlorodifluoromethane	0.333	0.349	-	-4.8	20	113	0
Chloromethane	0.529	0.593	-	-12.1	20	118	0
Vinyl chloride	0.38	0.404	-	-6.3	20	113	0
Bromomethane	20	19.511	-	2.4	20	101	0
Chloroethane	0.178	0.176	-	1.1	20	112	0
Trichlorofluoromethane	0.35	0.363	-	-3.7	20	107	0
Ethyl ether	0.109	0.104	-	4.6	20	106	0
1,1-Dichloroethene	0.235	0.197	-	16.2	20	81	0
Carbon disulfide	20	12.781	-	36.1*	20	72	0
Freon-113	0.235	0.217	-	7.7	20	98	0
Acrolein	20	15.667	-	21.7*	20	89	0
Methylene chloride	0.319	0.299	-	6.3	20	105	0
Acetone	0.068	0.075	-	-10.3	20	118	0
trans-1,2-Dichloroethene	0.296	0.287	-	3	20	104	0
Methyl acetate	0.21	0.205	-	2.4	20	116	0
Methyl tert-butyl ether	0.792	0.705	-	11	20	96	0
tert-Butyl alcohol	100	81.446	-	18.6	20	86	0
Diisopropyl ether	1.327	1.396	-	-5.2	20	112	0
1,1-Dichloroethane	0.696	0.661	-	5	20	102	0
Halothane	0.219	0.196	-	10.5	20	94	0
Acrylonitrile	0.115	0.115	-	0	20	106	0
Ethyl tert-butyl ether	1.237	1.122	-	9.3	20	98	0
Vinyl acetate	0.773	0.742	-	4	20	102	0
cis-1,2-Dichloroethene	0.331	0.308	-	6.9	20	101	0
2,2-Dichloropropane	0.442	0.426	-	3.6	20	103	0
Bromochloromethane	0.154	0.143	-	7.1	20	96	0
Cyclohexane	0.67	0.699	-	-4.3	20	110	0
Chloroform	0.538	0.501	-	6.9	20	99	0
Ethyl acetate	0.301	0.335	-	-11.3	20	117	0
Carbon tetrachloride	0.385	0.361	-	6.2	20	98	0
Tetrahydrofuran	0.112	0.12	-	-7.1	20	109	0
Dibromofluoromethane	0.27	0.264	-	2.2	20	108	0
1,1,1-Trichloroethane	0.47	0.445	-	5.3	20	101	0
2-Butanone	0.129	0.13	-	-0.8	20	112	0
1,1-Dichloropropene	0.392	0.386	-	1.5	20	103	0
Benzene	1.127	1.116	-	1	20	108	0
tert-Amyl methyl ether	0.765	0.698	-	8.8	20	99	0
1,2-Dichloroethane-d4	0.29	0.288	-	0.7	20	113	0
1,2-Dichloroethane	0.464	0.44	-	5.2	20	104	0
Methyl cyclohexane	0.415	0.425	-	-2.4	20	107	0
Trichloroethene	0.314	0.301	-	4.1	20	100	0
Dibromomethane	0.182	0.167	-	8.2	20	97	0
1,2-Dichloropropane	0.399	0.381	-	4.5	20	104	0
2-Chloroethyl vinyl ether	20	38.227	-	-91.1*	20	198	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1712854	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 04/27/17 06:44	
Lab File ID	: V04170427A01	Init. Calib. Date(s)	: 04/03/17	04/03/17
Sample No	: WG998400-2	Init. Calib. Times	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.375	-	10.5	20	97	0
1,4-Dioxane	0.00261	0.00242	-	7.3	20	100	0
cis-1,3-Dichloropropene	0.482	0.449	-	6.8	20	100	0
Chlorobenzene-d5	1	1	-	0	20	110	0
Toluene-d8	1.304	1.316	-	-0.9	20	111	0
Toluene	0.999	0.962	-	3.7	20	103	0
4-Methyl-2-pentanone	0.18	0.165	-	8.3	20	92	0
Tetrachloroethene	0.407	0.379	-	6.9	20	97	0
trans-1,3-Dichloropropene	0.566	0.515	-	9	20	96	0
Ethyl methacrylate	0.465	0.415	-	10.8	20	91	0
1,1,2-Trichloroethane	0.293	0.279	-	4.8	20	99	0
Chlorodibromomethane	0.45	0.365	-	18.9	20	86	0
1,3-Dichloropropane	0.568	0.54	-	4.9	20	100	0
1,2-Dibromoethane	0.367	0.323	-	12	20	93	0
2-Hexanone	0.276	0.291	-	-5.4	20	109	0
Chlorobenzene	1.131	1.069	-	5.5	20	100	0
Ethylbenzene	1.876	1.8	-	4.1	20	101	0
1,1,1,2-Tetrachloroethane	0.427	0.359	-	15.9	20	90	0
p/m Xylene	0.712	0.695	-	2.4	20	101	0
o Xylene	0.68	0.665	-	2.2	20	101	0
Styrene	1.158	1.092	-	5.7	20	98	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
Bromoform	0.54	0.394	-	27*	20	76	0
Isopropylbenzene	3.762	3.593	-	4.5	20	99	0
4-Bromofluorobenzene	0.994	1.017	-	-2.3	20	112	0
Bromobenzene	0.982	0.838	-	14.7	20	88	0
n-Propylbenzene	4.463	4.421	-	0.9	20	102	0
1,4-Dichlorobutane	1.794	1.647	-	8.2	20	95	0
1,1,2,2-Tetrachloroethane	20	19.19	-	4	20	92	0
4-Ethyltoluene	3.661	3.518	-	3.9	20	98	0
2-Chlorotoluene	2.734	2.552	-	6.7	20	98	0
1,3,5-Trimethylbenzene	3.213	3.04	-	5.4	20	98	0
1,2,3-Trichloropropane	20	19.607	-	2	20	96	0
trans-1,4-Dichloro-2-buten	0.315	0.265	-	15.9	20	83	0
4-Chlorotoluene	2.81	2.626	-	6.5	20	97	0
tert-Butylbenzene	2.666	2.502	-	6.2	20	97	0
1,2,4-Trimethylbenzene	3.264	3.05	-	6.6	20	96	0
sec-Butylbenzene	4.088	3.982	-	2.6	20	99	0
p-Isopropyltoluene	3.429	3.254	-	5.1	20	97	0
1,3-Dichlorobenzene	1.885	1.661	-	11.9	20	91	0
1,4-Dichlorobenzene	20	19.094	-	4.5	20	92	0
p-Diethylbenzene	2.018	1.926	-	4.6	20	96	0
n-Butylbenzene	3.179	3.234	-	-1.7	20	103	0
1,2-Dichlorobenzene	1.772	1.518	-	14.3	20	87	0
1,2,4,5-Tetramethylbenzene	3.373	2.943	-	12.7	20	91	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1712854	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 04/27/17 06:44	
Lab File ID	: V04170427A01	**Init. Calib. Date(s)**	: 04/03/17	04/03/17
Sample No	: WG998400-2	**Init. Calib. Times**	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.136	0.102	-	25*	20	75	0
1,3,5-Trichlorobenzene	20	18.619	-	6.9	20	87	0
Hexachlorobutadiene	0.546	0.469	-	14.1	20	89	0
1,2,4-Trichlorobenzene	20	18.238	-	8.8	20	87	0
Naphthalene	20	17.056	-	14.7	20	85	0
1,2,3-Trichlorobenzene	20	17.317	-	13.4	20	83	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1712854	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 04/27/17 06:44	
Lab File ID	: V04170427A01	Init. Calib. Date(s)	: 04/03/17	04/03/17
Sample No	: WG998402-2	Init. Calib. Times	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	112	0
Dichlorodifluoromethane	0.333	0.349	-	-4.8	20	113	0
Chloromethane	0.529	0.593	-	-12.1	20	118	0
Vinyl chloride	0.38	0.404	-	-6.3	20	113	0
Bromomethane	20	19.511	-	2.4	20	101	0
Chloroethane	0.178	0.176	-	1.1	20	112	0
Trichlorofluoromethane	0.35	0.363	-	-3.7	20	107	0
Ethyl ether	0.109	0.104	-	4.6	20	106	0
1,1-Dichloroethene	0.235	0.197	-	16.2	20	81	0
Carbon disulfide	20	12.781	-	36.1*	20	72	0
Freon-113	0.235	0.217	-	7.7	20	98	0
Acrolein	20	15.667	-	21.7*	20	89	0
Methylene chloride	0.319	0.299	-	6.3	20	105	0
Acetone	0.068	0.075	-	-10.3	20	118	0
trans-1,2-Dichloroethene	0.296	0.287	-	3	20	104	0
Methyl acetate	0.21	0.205	-	2.4	20	116	0
Methyl tert-butyl ether	0.792	0.705	-	11	20	96	0
tert-Butyl alcohol	100	81.446	-	18.6	20	86	0
Diisopropyl ether	1.327	1.396	-	-5.2	20	112	0
1,1-Dichloroethane	0.696	0.661	-	5	20	102	0
Halothane	0.219	0.196	-	10.5	20	94	0
Acrylonitrile	0.115	0.115	-	0	20	106	0
Ethyl tert-butyl ether	1.237	1.122	-	9.3	20	98	0
Vinyl acetate	0.773	0.742	-	4	20	102	0
cis-1,2-Dichloroethene	0.331	0.308	-	6.9	20	101	0
2,2-Dichloropropane	0.442	0.426	-	3.6	20	103	0
Bromochloromethane	0.154	0.143	-	7.1	20	96	0
Cyclohexane	0.67	0.699	-	-4.3	20	110	0
Chloroform	0.538	0.501	-	6.9	20	99	0
Ethyl acetate	0.301	0.335	-	-11.3	20	117	0
Carbon tetrachloride	0.385	0.361	-	6.2	20	98	0
Tetrahydrofuran	0.112	0.12	-	-7.1	20	109	0
Dibromofluoromethane	0.27	0.264	-	2.2	20	108	0
1,1,1-Trichloroethane	0.47	0.445	-	5.3	20	101	0
2-Butanone	0.129	0.13	-	-0.8	20	112	0
1,1-Dichloropropene	0.392	0.386	-	1.5	20	103	0
Benzene	1.127	1.116	-	1	20	108	0
tert-Amyl methyl ether	0.765	0.698	-	8.8	20	99	0
1,2-Dichloroethane-d4	0.29	0.288	-	0.7	20	113	0
1,2-Dichloroethane	0.464	0.44	-	5.2	20	104	0
Methyl cyclohexane	0.415	0.425	-	-2.4	20	107	0
Trichloroethene	0.314	0.301	-	4.1	20	100	0
Dibromomethane	0.182	0.167	-	8.2	20	97	0
1,2-Dichloropropane	0.399	0.381	-	4.5	20	104	0
2-Chloroethyl vinyl ether	20	38.227	-	-91.1*	20	198	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1712854	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 04/27/17 06:44	
Lab File ID	: V04170427A01	Init. Calib. Date(s)	: 04/03/17	04/03/17
Sample No	: WG998402-2	Init. Calib. Times	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.375	-	10.5	20	97	0
1,4-Dioxane	0.00261	0.00242	-	7.3	20	100	0
cis-1,3-Dichloropropene	0.482	0.449	-	6.8	20	100	0
Chlorobenzene-d5	1	1	-	0	20	110	0
Toluene-d8	1.304	1.316	-	-0.9	20	111	0
Toluene	0.999	0.962	-	3.7	20	103	0
4-Methyl-2-pentanone	0.18	0.165	-	8.3	20	92	0
Tetrachloroethene	0.407	0.379	-	6.9	20	97	0
trans-1,3-Dichloropropene	0.566	0.515	-	9	20	96	0
Ethyl methacrylate	0.465	0.415	-	10.8	20	91	0
1,1,2-Trichloroethane	0.293	0.279	-	4.8	20	99	0
Chlorodibromomethane	0.45	0.365	-	18.9	20	86	0
1,3-Dichloropropane	0.568	0.54	-	4.9	20	100	0
1,2-Dibromoethane	0.367	0.323	-	12	20	93	0
2-Hexanone	0.276	0.291	-	-5.4	20	109	0
Chlorobenzene	1.131	1.069	-	5.5	20	100	0
Ethylbenzene	1.876	1.8	-	4.1	20	101	0
1,1,1,2-Tetrachloroethane	0.427	0.359	-	15.9	20	90	0
p/m Xylene	0.712	0.695	-	2.4	20	101	0
o Xylene	0.68	0.665	-	2.2	20	101	0
Styrene	1.158	1.092	-	5.7	20	98	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	108	0
Bromoform	0.54	0.394	-	27*	20	76	0
Isopropylbenzene	3.762	3.593	-	4.5	20	99	0
4-Bromofluorobenzene	0.994	1.017	-	-2.3	20	112	0
Bromobenzene	0.982	0.838	-	14.7	20	88	0
n-Propylbenzene	4.463	4.421	-	0.9	20	102	0
1,4-Dichlorobutane	1.794	1.647	-	8.2	20	95	0
1,1,2,2-Tetrachloroethane	20	19.19	-	4	20	92	0
4-Ethyltoluene	3.661	3.518	-	3.9	20	98	0
2-Chlorotoluene	2.734	2.552	-	6.7	20	98	0
1,3,5-Trimethylbenzene	3.213	3.04	-	5.4	20	98	0
1,2,3-Trichloropropane	20	19.607	-	2	20	96	0
trans-1,4-Dichloro-2-buten	0.315	0.265	-	15.9	20	83	0
4-Chlorotoluene	2.81	2.626	-	6.5	20	97	0
tert-Butylbenzene	2.666	2.502	-	6.2	20	97	0
1,2,4-Trimethylbenzene	3.264	3.05	-	6.6	20	96	0
sec-Butylbenzene	4.088	3.982	-	2.6	20	99	0
p-Isopropyltoluene	3.429	3.254	-	5.1	20	97	0
1,3-Dichlorobenzene	1.885	1.661	-	11.9	20	91	0
1,4-Dichlorobenzene	20	19.094	-	4.5	20	92	0
p-Diethylbenzene	2.018	1.926	-	4.6	20	96	0
n-Butylbenzene	3.179	3.234	-	-1.7	20	103	0
1,2-Dichlorobenzene	1.772	1.518	-	14.3	20	87	0
1,2,4,5-Tetramethylbenzene	3.373	2.943	-	12.7	20	91	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1712854	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 04/27/17 06:44	
Lab File ID	: V04170427A01	**Init. Calib. Date(s)**	: 04/03/17	04/03/17
Sample No	: WG998402-2	**Init. Calib. Times**	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.136	0.102	-	25*	20	75	0
1,3,5-Trichlorobenzene	20	18.619	-	6.9	20	87	0
Hexachlorobutadiene	0.546	0.469	-	14.1	20	89	0
1,2,4-Trichlorobenzene	20	18.238	-	8.8	20	87	0
Naphthalene	20	17.056	-	14.7	20	85	0
1,2,3-Trichlorobenzene	20	17.317	-	13.4	20	83	0

* Value outside of QC limits.

I:\Pest11\170426b\11170426b-01.d

Data File Name	**11170426b-01.d**
Data File Path	**I:\Pest11\170426b**
Operator	**PEST11:RL**
Date Acquired	**4/26/2017 18:48**
Acq. Method File	**PEST_P11.M**
Sample Name	**deg std pp7856**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.97	857980800.4	% Breakdown
4,4'-DDE	4.31	3838143.161	
4,4'-DDD	4.77	7224169.612	1.27%
Endrin	4.71	526967707.2	% Breakdown
Endrin Aldehyde	5.18	1977932.761	
Endrin Ketone	5.67	8481320.606	1.95%
Name #2			
Endrin #2	5.29	856024814.45	% Breakdown
Endrin Aldehyde #2	5.67	2381751.236	
Endrin Ketone #2	6.22	11060051.21	1.55%
4,4'-DDT #2	5.57	1388374594	% Breakdown
4,4'-DDE #2	4.93	4821952.429	
4,4'-DDD #2	5.35	7893744.913	0.91%

Wg997328-1,-2,-3,-4,-5
L1712854-01,-02,-03,-04,-05

ANALYTICAL REPORT

Lab Number:	L1713409
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:	05/01/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1713409
Report Date: 05/01/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1713409-01	SHORELINE STOCKPILE #5A	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 09:30	04/24/17
L1713409-02	SHORELINE STOCKPILE #5B	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 09:40	04/24/17
L1713409-03	SHORELINE STOCKPILE #5C	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 09:50	04/24/17
L1713409-04	SHORELINE STOCKPILE #5D	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 10:00	04/24/17
L1713409-05	SHORELINE STOCKPILE #5E	SOIL	1 HORIZON WAY, EVERETT, MA	04/24/17 10:10	04/24/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1713409
Report Date: 05/01/17

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: 05/01/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1713409
Project Number: 171521.52
Report Date: 05/01/17

SAMPLE RESULTS

Lab ID: L1713409-01
Client ID: SHORELINE STOCKPILE #5A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:30
Date Received: 04/24/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/28/17 05:45

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	0.50	--	1	04/29/17 13:27	05/01/17 11:43	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1713409
Project Number: 171521.52
Report Date: 05/01/17

SAMPLE RESULTS

Lab ID: L1713409-02
Client ID: SHORELINE STOCKPILE #5B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:40
Date Received: 04/24/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/28/17 05:45

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	0.50	--	1	04/29/17 13:27	05/01/17 10:41	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1713409
Project Number: 171521.52
Report Date: 05/01/17

SAMPLE RESULTS

Lab ID: L1713409-03
Client ID: SHORELINE STOCKPILE #5C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 09:50
Date Received: 04/24/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/28/17 05:45

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	0.50	--	1	04/29/17 13:27	05/01/17 10:45	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1713409
Project Number: 171521.52
Report Date: 05/01/17

SAMPLE RESULTS

Lab ID: L1713409-04
Client ID: SHORELINE STOCKPILE #5D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 10:00
Date Received: 04/24/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/28/17 05:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	04/29/17 13:27	05/01/17 10:50	EPA 3015	1,6010C	PS
Lead, TCLP	ND		mg/l	0.50	--	1	04/29/17 13:27	05/01/17 10:50	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1713409
Project Number: 171521.52
Report Date: 05/01/17

SAMPLE RESULTS

Lab ID: L1713409-05
Client ID: SHORELINE STOCKPILE #5E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 04/24/17 10:10
Date Received: 04/24/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 04/28/17 05:45

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	0.50	--	1	04/29/17 13:27	05/01/17 10:54	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1713409
Report Date: 05/01/17

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): 01-05 Batch: WG998845-1										
Arsenic, TCLP	ND		mg/l	1.0	--	1	04/29/17 13:27	05/01/17 11:08	1,6010C	PS
Lead, TCLP	ND		mg/l	0.50	--	1	04/29/17 13:27	05/01/17 11:08	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 04/28/17 05:45

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1713409

Report Date: 05/01/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 Batch: WG998845-2								
Arsenic, TCLP	108		-		75-125	-		20
Lead, TCLP	96		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1713409
Report Date: 05/01/17

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): 01-05 QC Batch ID: WG998845-3 QC Sample: L1713354-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.3	108		-	-		75-125	-		20
Lead, TCLP	1.3	5.1	6.1	94		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1713409
Report Date: 05/01/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG998845-4 QC Sample: L1713354-01 Client ID: DUP Sample						
Lead, TCLP	1.3	1.2	mg/l	8		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1713409
Report Date: 05/01/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1713409-01A	Glass 500ml/16oz unpreserved	A	N/A	5.8	Y	Absent	-
L1713409-01X	Plastic 120ml HNO3 preserved Ext	A	<2	5.8	Y	Absent	PB-CI(180)
L1713409-01X9	Tumble Vessel	A	N/A	5.8	Y	Absent	-
L1713409-02A	Glass 500ml/16oz unpreserved	A	N/A	5.8	Y	Absent	-
L1713409-02X	Plastic 120ml HNO3 preserved Ext	A	<2	5.8	Y	Absent	PB-CI(180)
L1713409-02X9	Tumble Vessel	A	N/A	5.8	Y	Absent	-
L1713409-03A	Glass 500ml/16oz unpreserved	A	N/A	5.8	Y	Absent	-
L1713409-03X	Plastic 120ml HNO3 preserved Ext	A	<2	5.8	Y	Absent	PB-CI(180)
L1713409-03X9	Tumble Vessel	A	N/A	5.8	Y	Absent	-
L1713409-04A	Glass 500ml/16oz unpreserved	A	N/A	5.8	Y	Absent	-
L1713409-04X	Plastic 120ml HNO3 preserved Ext	A	<2	5.8	Y	Absent	AS-CI(180),PB-CI(180)
L1713409-04X9	Tumble Vessel	A	N/A	5.8	Y	Absent	-
L1713409-05A	Glass 500ml/16oz unpreserved	A	N/A	5.8	Y	Absent	-
L1713409-05X	Plastic 120ml HNO3 preserved Ext	A	<2	5.8	Y	Absent	PB-CI(180)
L1713409-05X9	Tumble Vessel	A	N/A	5.8	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1713409
Project Number:	171521.52	**Report Date:**	05/01/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1713409
Project Number:	171521.52	**Report Date:**	05/01/17

Data Qualifiers

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
Project Number: 171521.52
Lab Number: L1713409
Report Date: 05/01/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 4/25./17

L1713409 EO 4/27/17

CHAIN OF CUSTODY

PAGE DD OF

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: 4/24/17

ALPHA Job #: ~~L1712854~~

Project Information

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

Report Information Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program: MA-MCP
Criteria: 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?

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: 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
TCLP 20x rule applies for MCP-14 meatals

13409

ANALYSIS

TCLP-Pb

TCLP-As

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

TOTAL # BOTTLES

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, ignit	Sulfate, Cyanide (Reactivity)	TCLP-Pb	TCLP-As	Sample Specific Comments	TOTAL # BOTTLES
~~12854~~ -01	Shoreline Stockpile #5A	4/24/17	0930	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐		
-02	Shoreline Stockpile #5B	4/24/17	0940	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐		
-03	Shoreline Stockpile #5C	4/24/17	0950	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐		
-04	Shoreline Stockpile #5D	4/24/17	1000	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐		
-05	Shoreline Stockpile #5E	4/24/17	1010	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐		

Container Type	G	V	-	-	-	-	-	-	-	-	-	-	
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	4/24/17 @ 1247		4/24/17 1247
	4/24/17 1807		4/24/17 1807

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:	L1714154
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:	05/09/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1714154
Report Date: 05/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1714154-01	SHORELINE STOCKPILE #6A	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:00	05/03/17
L1714154-02	SHORELINE STOCKPILE #6B	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:10	05/03/17
L1714154-03	SHORELINE STOCKPILE #6C	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:20	05/03/17
L1714154-04	SHORELINE STOCKPILE #6D	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:30	05/03/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

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: L1714154
Report Date: 05/09/17

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:** L1714154
Project Number: 171521.52 **Report Date:** 05/09/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

L1714154-03 and -04: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to excessive sample weight. A High Level analysis was performed and is reported.

In reference to question G:

L1714154-03 and -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1714154-01 through -04, did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0849) and 1,4-dioxane (0.0025), as well as the average response factor for acetone and 1,4-dioxane.

The continuing calibration standards, associated with L1714154-01 through -04, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards atr included as an addendum to this report.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1714154-01 through -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG1000110-2/-3 LCS/LCSD recoveries, associated with L1714154-01 through -04, are below the

Project Name:	WYNN EVERETT	**Lab Number:**	L1714154
Project Number:	171521.52	**Report Date:**	05/09/17

Case Narrative (continued)

acceptance criteria for dinoseb (4%/6%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: 05/09/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/05/17 11:50
Analyst: JC
Percent Solids: 82%

Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.88	--	1
Chloroform	ND		ug/kg	0.88	--	1
Carbon tetrachloride	ND		ug/kg	0.59	--	1
1,2-Dichloropropane	ND		ug/kg	2.1	--	1
Dibromochloromethane	ND		ug/kg	0.59	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	--	1
Tetrachloroethene	ND		ug/kg	0.59	--	1
Chlorobenzene	ND		ug/kg	0.59	--	1
Trichlorofluoromethane	ND		ug/kg	2.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.59	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	--	1
Bromodichloromethane	ND		ug/kg	0.59	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.59	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	--	1
1,1-Dichloropropene	ND		ug/kg	2.4	--	1
Bromoform	ND		ug/kg	2.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	--	1
Benzene	ND		ug/kg	0.59	--	1
Toluene	ND		ug/kg	0.88	--	1
Ethylbenzene	ND		ug/kg	0.59	--	1
Chloromethane	ND		ug/kg	2.4	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.59	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.88	--	1
Trichloroethene	ND		ug/kg	0.59	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01 Date Collected: 05/03/17 11:00

Client ID: SHORELINE STOCKPILE #6A Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.59	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.59	--	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	5.9	--	1
Acetone	ND		ug/kg	21	--	1
Carbon disulfide	ND		ug/kg	2.4	--	1
Methyl ethyl ketone	ND		ug/kg	5.9	--	1
Methyl isobutyl ketone	ND		ug/kg	5.9	--	1
2-Hexanone	ND		ug/kg	5.9	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	2.4	--	1
2,2-Dichloropropane	ND		ug/kg	3.0	--	1
1,2-Dibromoethane	ND		ug/kg	2.4	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	--	1
Bromobenzene	ND		ug/kg	3.0	--	1
n-Butylbenzene	ND		ug/kg	0.59	--	1
sec-Butylbenzene	ND		ug/kg	0.59	--	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	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	2.4	--	1
Isopropylbenzene	ND		ug/kg	0.59	--	1
p-Isopropyltoluene	ND		ug/kg	0.59	--	1
Naphthalene	ND		ug/kg	2.4	--	1
n-Propylbenzene	ND		ug/kg	0.59	--	1
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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.0	--	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	24	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/05/17 12:16
Analyst: JC
Percent Solids: 82%

Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	0.97	--	1
Carbon tetrachloride	ND		ug/kg	0.64	--	1
1,2-Dichloropropane	ND		ug/kg	2.2	--	1
Dibromochloromethane	ND		ug/kg	0.64	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	ND		ug/kg	0.64	--	1
Chlorobenzene	ND		ug/kg	0.64	--	1
Trichlorofluoromethane	ND		ug/kg	2.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.64	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	--	1
Bromodichloromethane	ND		ug/kg	0.64	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.64	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	--	1
1,1-Dichloropropene	ND		ug/kg	2.6	--	1
Bromoform	ND		ug/kg	2.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	--	1
Benzene	ND		ug/kg	0.64	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	ND		ug/kg	0.64	--	1
Chloromethane	ND		ug/kg	2.6	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.64	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
Trichloroethene	ND		ug/kg	0.64	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02 Date Collected: 05/03/17 11:10

Client ID: SHORELINE STOCKPILE #6B Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.64	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.64	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	6.4	--	1
Acetone	ND		ug/kg	23	--	1
Carbon disulfide	ND		ug/kg	2.6	--	1
Methyl ethyl ketone	ND		ug/kg	6.4	--	1
Methyl isobutyl ketone	ND		ug/kg	6.4	--	1
2-Hexanone	ND		ug/kg	6.4	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	2.6	--	1
2,2-Dichloropropane	ND		ug/kg	3.2	--	1
1,2-Dibromoethane	ND		ug/kg	2.6	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	--	1
Bromobenzene	ND		ug/kg	3.2	--	1
n-Butylbenzene	ND		ug/kg	0.64	--	1
sec-Butylbenzene	ND		ug/kg	0.64	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	2.6	--	1
Isopropylbenzene	ND		ug/kg	0.64	--	1
p-Isopropyltoluene	ND		ug/kg	0.64	--	1
Naphthalene	ND		ug/kg	2.6	--	1
n-Propylbenzene	ND		ug/kg	0.64	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02 Date Collected: 05/03/17 11:10

Client ID: SHORELINE STOCKPILE #6B Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.2	--	1
Diisopropyl Ether	ND		ug/kg	2.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.6	--	1
1,4-Dioxane	ND		ug/kg	26	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/05/17 17:04
Analyst: CBN
Percent Solids: 78%

Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	720	--	1
1,1-Dichloroethane	ND		ug/kg	110	--	1
Chloroform	ND		ug/kg	110	--	1
Carbon tetrachloride	ND		ug/kg	72	--	1
1,2-Dichloropropane	ND		ug/kg	250	--	1
Dibromochloromethane	ND		ug/kg	72	--	1
1,1,2-Trichloroethane	ND		ug/kg	110	--	1
Tetrachloroethene	ND		ug/kg	72	--	1
Chlorobenzene	ND		ug/kg	72	--	1
Trichlorofluoromethane	ND		ug/kg	290	--	1
1,2-Dichloroethane	ND		ug/kg	72	--	1
1,1,1-Trichloroethane	ND		ug/kg	72	--	1
Bromodichloromethane	ND		ug/kg	72	--	1
trans-1,3-Dichloropropene	ND		ug/kg	72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	72	--	1
1,3-Dichloropropene, Total	ND		ug/kg	72	--	1
1,1-Dichloropropene	ND		ug/kg	290	--	1
Bromoform	ND		ug/kg	290	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	72	--	1
Benzene	ND		ug/kg	72	--	1
Toluene	ND		ug/kg	110	--	1
Ethylbenzene	ND		ug/kg	72	--	1
Chloromethane	ND		ug/kg	290	--	1
Bromomethane	ND		ug/kg	140	--	1
Vinyl chloride	ND		ug/kg	140	--	1
Chloroethane	ND		ug/kg	140	--	1
1,1-Dichloroethene	ND		ug/kg	72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	110	--	1
Trichloroethene	ND		ug/kg	72	--	1
1,2-Dichlorobenzene	ND		ug/kg	290	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03 Date Collected: 05/03/17 11:20

Client ID: SHORELINE STOCKPILE #6C Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	290	--	1
1,4-Dichlorobenzene	ND		ug/kg	290	--	1
Methyl tert butyl ether	ND		ug/kg	140	--	1
p/m-Xylene	ND		ug/kg	140	--	1
o-Xylene	ND		ug/kg	140	--	1
Xylenes, Total	ND		ug/kg	140	--	1
cis-1,2-Dichloroethene	ND		ug/kg	72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	72	--	1
Dibromomethane	ND		ug/kg	290	--	1
1,2,3-Trichloropropane	ND		ug/kg	290	--	1
Styrene	ND		ug/kg	140	--	1
Dichlorodifluoromethane	ND		ug/kg	720	--	1
Acetone	ND		ug/kg	2600	--	1
Carbon disulfide	ND		ug/kg	290	--	1
Methyl ethyl ketone	ND		ug/kg	720	--	1
Methyl isobutyl ketone	ND		ug/kg	720	--	1
2-Hexanone	ND		ug/kg	720	--	1
Bromochloromethane	ND		ug/kg	290	--	1
Tetrahydrofuran	ND		ug/kg	290	--	1
2,2-Dichloropropane	ND		ug/kg	360	--	1
1,2-Dibromoethane	ND		ug/kg	290	--	1
1,3-Dichloropropane	ND		ug/kg	290	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	72	--	1
Bromobenzene	ND		ug/kg	360	--	1
n-Butylbenzene	ND		ug/kg	72	--	1
sec-Butylbenzene	ND		ug/kg	72	--	1
tert-Butylbenzene	ND		ug/kg	290	--	1
o-Chlorotoluene	ND		ug/kg	290	--	1
p-Chlorotoluene	ND		ug/kg	290	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	--	1
Hexachlorobutadiene	ND		ug/kg	290	--	1
Isopropylbenzene	ND		ug/kg	72	--	1
p-Isopropyltoluene	ND		ug/kg	72	--	1
Naphthalene	ND		ug/kg	290	--	1
n-Propylbenzene	ND		ug/kg	72	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	360	--	1
Diisopropyl Ether	ND		ug/kg	290	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	290	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	290	--	1
1,4-Dioxane	ND		ug/kg	2900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	95		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/05/17 17:30
Analyst: CBN
Percent Solids: 76%

Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	610	--	1
1,1-Dichloroethane	ND		ug/kg	91	--	1
Chloroform	ND		ug/kg	91	--	1
Carbon tetrachloride	ND		ug/kg	61	--	1
1,2-Dichloropropane	ND		ug/kg	210	--	1
Dibromochloromethane	ND		ug/kg	61	--	1
1,1,2-Trichloroethane	ND		ug/kg	91	--	1
Tetrachloroethene	ND		ug/kg	61	--	1
Chlorobenzene	ND		ug/kg	61	--	1
Trichlorofluoromethane	ND		ug/kg	240	--	1
1,2-Dichloroethane	ND		ug/kg	61	--	1
1,1,1-Trichloroethane	ND		ug/kg	61	--	1
Bromodichloromethane	ND		ug/kg	61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	61	--	1
cis-1,3-Dichloropropene	ND		ug/kg	61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	61	--	1
1,1-Dichloropropene	ND		ug/kg	240	--	1
Bromoform	ND		ug/kg	240	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	61	--	1
Benzene	ND		ug/kg	61	--	1
Toluene	ND		ug/kg	91	--	1
Ethylbenzene	ND		ug/kg	61	--	1
Chloromethane	ND		ug/kg	240	--	1
Bromomethane	ND		ug/kg	120	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	120	--	1
1,1-Dichloroethene	ND		ug/kg	61	--	1
trans-1,2-Dichloroethene	ND		ug/kg	91	--	1
Trichloroethene	ND		ug/kg	61	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04 Date Collected: 05/03/17 11:30

Client ID: SHORELINE STOCKPILE #6D Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
Methyl tert butyl ether	ND		ug/kg	120	--	1
p/m-Xylene	ND		ug/kg	120	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	61	--	1
1,2-Dichloroethene, Total	ND		ug/kg	61	--	1
Dibromomethane	ND		ug/kg	240	--	1
1,2,3-Trichloropropane	ND		ug/kg	240	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	610	--	1
Acetone	ND		ug/kg	2200	--	1
Carbon disulfide	ND		ug/kg	240	--	1
Methyl ethyl ketone	ND		ug/kg	610	--	1
Methyl isobutyl ketone	ND		ug/kg	610	--	1
2-Hexanone	ND		ug/kg	610	--	1
Bromochloromethane	ND		ug/kg	240	--	1
Tetrahydrofuran	ND		ug/kg	240	--	1
2,2-Dichloropropane	ND		ug/kg	300	--	1
1,2-Dibromoethane	ND		ug/kg	240	--	1
1,3-Dichloropropane	ND		ug/kg	240	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	61	--	1
Bromobenzene	ND		ug/kg	300	--	1
n-Butylbenzene	ND		ug/kg	61	--	1
sec-Butylbenzene	ND		ug/kg	61	--	1
tert-Butylbenzene	ND		ug/kg	240	--	1
o-Chlorotoluene	ND		ug/kg	240	--	1
p-Chlorotoluene	ND		ug/kg	240	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	240	--	1
Isopropylbenzene	ND		ug/kg	61	--	1
p-Isopropyltoluene	ND		ug/kg	61	--	1
Naphthalene	ND		ug/kg	240	--	1
n-Propylbenzene	ND		ug/kg	61	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	240	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	--	1

Project Name: WYNN EVERETT
Lab Number: L1714154
Project Number: 171521.52
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	300	--	1
Diisopropyl Ether	ND		ug/kg	240	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	240	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	240	--	1
1,4-Dioxane	ND		ug/kg	2400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/05/17 09:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1000685-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/05/17 09:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1000685-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/05/17 09:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1000685-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/05/17 09:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1000685-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/05/17 09:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG1000750-5					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/05/17 09:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG1000750-5					
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/05/17 09:13
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04 Batch: WG1000750-5					
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Diethyl ether	ND		ug/kg	250	--
Diisopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	2000	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Halothane	ND		ug/kg	2000	--
Ethyl Acetate	ND		ug/kg	1000	--
Freon-113	ND		ug/kg	1000	--
Vinyl acetate	ND		ug/kg	500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000685-3 WG1000685-4								
Methylene chloride	92		98		70-130	6		20
1,1-Dichloroethane	93		98		70-130	5		20
Chloroform	92		97		70-130	5		20
Carbon tetrachloride	87		93		70-130	7		20
1,2-Dichloropropane	94		99		70-130	5		20
Dibromochloromethane	87		88		70-130	1		20
1,1,2-Trichloroethane	97		98		70-130	1		20
Tetrachloroethene	83		86		70-130	4		20
Chlorobenzene	87		90		70-130	3		20
Trichlorofluoromethane	92		97		70-130	5		20
1,2-Dichloroethane	100		106		70-130	6		20
1,1,1-Trichloroethane	90		95		70-130	5		20
Bromodichloromethane	92		96		70-130	4		20
trans-1,3-Dichloropropene	93		96		70-130	3		20
cis-1,3-Dichloropropene	96		101		70-130	5		20
1,1-Dichloropropene	92		96		70-130	4		20
Bromoform	83		86		70-130	4		20
1,1,2,2-Tetrachloroethane	104		108		70-130	4		20
Benzene	95		98		70-130	3		20
Toluene	87		89		70-130	2		20
Ethylbenzene	87		90		70-130	3		20
Chloromethane	105		112		70-130	6		20
Bromomethane	99		104		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000685-3 WG1000685-4								
Vinyl chloride	95		100		70-130	5		20
Chloroethane	94		99		70-130	5		20
1,1-Dichloroethene	77		79		70-130	3		20
trans-1,2-Dichloroethene	94		99		70-130	5		20
Trichloroethene	92		95		70-130	3		20
1,2-Dichlorobenzene	82		85		70-130	4		20
1,3-Dichlorobenzene	79		84		70-130	6		20
1,4-Dichlorobenzene	88		90		70-130	2		20
Methyl tert butyl ether	103		106		70-130	3		20
p/m-Xylene	89		91		70-130	2		20
o-Xylene	90		92		70-130	2		20
cis-1,2-Dichloroethene	91		96		70-130	5		20
Dibromomethane	103		104		70-130	1		20
1,4-Dichlorobutane	94		99		70-130	5		20
1,2,3-Trichloropropane	108		109		70-130	1		20
Styrene	89		90		70-130	1		20
Dichlorodifluoromethane	86		92		70-130	7		20
Acetone	**148**	Q	**152**	Q	70-130	3		20
Carbon disulfide	88		91		70-130	3		20
Methyl ethyl ketone	**132**	Q	**135**	Q	70-130	2		20
Methyl isobutyl ketone	113		118		70-130	4		20
2-Hexanone	**133**	Q	**137**	Q	70-130	3		20
Ethyl methacrylate	100		98		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000685-3 WG1000685-4								
Acrylonitrile	123		**131**	Q	70-130	6		20
Bromochloromethane	98		100		70-130	2		20
Tetrahydrofuran	**138**	Q	127		70-130	8		20
2,2-Dichloropropane	92		96		70-130	4		20
1,2-Dibromoethane	95		95		70-130	0		20
1,3-Dichloropropane	97		98		70-130	1		20
1,1,1,2-Tetrachloroethane	82		85		70-130	4		20
Bromobenzene	80		84		70-130	5		20
n-Butylbenzene	89		91		70-130	2		20
sec-Butylbenzene	84		87		70-130	4		20
tert-Butylbenzene	82		86		70-130	5		20
o-Chlorotoluene	83		87		70-130	5		20
p-Chlorotoluene	83		87		70-130	5		20
1,2-Dibromo-3-chloropropane	100		101		70-130	1		20
Hexachlorobutadiene	75		81		70-130	8		20
Isopropylbenzene	84		87		70-130	4		20
p-Isopropyltoluene	84		87		70-130	4		20
Naphthalene	97		101		70-130	4		20
n-Propylbenzene	85		89		70-130	5		20
1,2,3-Trichlorobenzene	89		93		70-130	4		20
1,2,4-Trichlorobenzene	87		92		70-130	6		20
1,3,5-Trimethylbenzene	85		87		70-130	2		20
1,2,4-Trimethylbenzene	83		86		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000685-3 WG1000685-4								
trans-1,4-Dichloro-2-butene	96		113		70-130	16		20
Diethyl ether	106		111		70-130	5		20
Diisopropyl Ether	107		113		70-130	5		20
Ethyl-Tert-Butyl-Ether	100		104		70-130	4		20
Tertiary-Amyl Methyl Ether	101		102		70-130	1		20
1,4-Dioxane	**131**	Q	**133**	Q	70-130	2		20
2-Chloroethylvinyl ether	**254**	Q	**242**	Q	70-130	5		20
Halothane	87		94		70-130	8		20
Ethyl Acetate	**138**	Q	**139**	Q	70-130	1		20
Freon-113	88		74		70-130	17		20
Vinyl acetate	111		117		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		106		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	100		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1000750-3 WG1000750-4								
Methylene chloride	92		98		70-130	6		20
1,1-Dichloroethane	93		98		70-130	5		20
Chloroform	92		97		70-130	5		20
Carbon tetrachloride	87		93		70-130	7		20
1,2-Dichloropropane	94		99		70-130	5		20
Dibromochloromethane	87		88		70-130	1		20
1,1,2-Trichloroethane	97		98		70-130	1		20
Tetrachloroethene	83		86		70-130	4		20
Chlorobenzene	87		90		70-130	3		20
Trichlorofluoromethane	92		97		70-130	5		20
1,2-Dichloroethane	100		106		70-130	6		20
1,1,1-Trichloroethane	90		95		70-130	5		20
Bromodichloromethane	92		96		70-130	4		20
trans-1,3-Dichloropropene	93		96		70-130	3		20
cis-1,3-Dichloropropene	96		101		70-130	5		20
1,1-Dichloropropene	92		96		70-130	4		20
Bromoform	83		86		70-130	4		20
1,1,2,2-Tetrachloroethane	104		108		70-130	4		20
Benzene	95		98		70-130	3		20
Toluene	87		89		70-130	2		20
Ethylbenzene	87		90		70-130	3		20
Chloromethane	105		112		70-130	6		20
Bromomethane	99		104		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1000750-3 WG1000750-4								
Vinyl chloride	95		100		70-130	5		20
Chloroethane	94		99		70-130	5		20
1,1-Dichloroethene	77		79		70-130	3		20
trans-1,2-Dichloroethene	94		99		70-130	5		20
Trichloroethene	92		95		70-130	3		20
1,2-Dichlorobenzene	82		85		70-130	4		20
1,3-Dichlorobenzene	79		84		70-130	6		20
1,4-Dichlorobenzene	88		90		70-130	2		20
Methyl tert butyl ether	103		106		70-130	3		20
p/m-Xylene	89		91		70-130	2		20
o-Xylene	90		92		70-130	2		20
cis-1,2-Dichloroethene	91		96		70-130	5		20
Dibromomethane	103		104		70-130	1		20
1,2,3-Trichloropropane	108		109		70-130	1		20
Styrene	89		90		70-130	1		20
Dichlorodifluoromethane	86		92		70-130	7		20
Acetone	**148**	Q	**152**	Q	70-130	3		20
Carbon disulfide	88		91		70-130	3		20
Methyl ethyl ketone	**132**	Q	**135**	Q	70-130	2		20
Methyl isobutyl ketone	113		118		70-130	4		20
2-Hexanone	**133**	Q	**137**	Q	70-130	3		20
Bromochloromethane	98		100		70-130	2		20
Tetrahydrofuran	**138**	Q	127		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1000750-3 WG1000750-4								
2,2-Dichloropropane	92		96		70-130	4		20
1,2-Dibromoethane	95		95		70-130	0		20
1,3-Dichloropropane	97		98		70-130	1		20
1,1,1,2-Tetrachloroethane	82		85		70-130	4		20
Bromobenzene	80		84		70-130	5		20
n-Butylbenzene	89		91		70-130	2		20
sec-Butylbenzene	84		87		70-130	4		20
tert-Butylbenzene	82		86		70-130	5		20
o-Chlorotoluene	83		87		70-130	5		20
p-Chlorotoluene	83		87		70-130	5		20
1,2-Dibromo-3-chloropropane	100		101		70-130	1		20
Hexachlorobutadiene	75		81		70-130	8		20
Isopropylbenzene	84		87		70-130	4		20
p-Isopropyltoluene	84		87		70-130	4		20
Naphthalene	97		101		70-130	4		20
n-Propylbenzene	85		89		70-130	5		20
1,2,3-Trichlorobenzene	89		93		70-130	4		20
1,2,4-Trichlorobenzene	87		92		70-130	6		20
1,3,5-Trimethylbenzene	85		87		70-130	2		20
1,2,4-Trimethylbenzene	83		86		70-130	4		20
Diethyl ether	106		111		70-130	5		20
Diisopropyl Ether	107		113		70-130	5		20
Ethyl-Tert-Butyl-Ether	100		104		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04 Batch: WG1000750-3 WG1000750-4								
Tertiary-Amyl Methyl Ether	101		102		70-130	1		20
1,4-Dioxane	**131**	Q	**133**	Q	70-130	2		20
2-Chloroethylvinyl ether	**254**	Q	**242**	Q	70-130	5		20
Halothane	87		94		70-130	8		20
Ethyl Acetate	**138**	Q	**139**	Q	70-130	1		20
Freon-113	88		74		70-130	17		20
Vinyl acetate	111		117		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		106		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	100		103		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/05/17 04:15
Analyst: CB
Percent Solids: 82%

Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 07:21

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	860		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	210	--	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	400		ug/kg	120	--	1
Benzo(a)pyrene	340		ug/kg	160	--	1
Benzo(b)fluoranthene	430		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01 Date Collected: 05/03/17 11:00

Client ID: SHORELINE STOCKPILE #6A Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	150		ug/kg	120	--	1
Chrysene	390		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	180		ug/kg	120	--	1
Benzo(ghi)perylene	220		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	630		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	220		ug/kg	160	--	1
Pyrene	770		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	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		30-130
Phenol-d6	85		30-130
Nitrobenzene-d5	90		30-130
2-Fluorobiphenyl	78		30-130
2,4,6-Tribromophenol	102		30-130
4-Terphenyl-d14	64		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/05/17 04:41
Analyst: CB
Percent Solids: 82%

Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 07:21

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	970		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	380		ug/kg	120	--	1
Benzo(a)pyrene	310		ug/kg	160	--	1
Benzo(b)fluoranthene	440		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02 Date Collected: 05/03/17 11:10

Client ID: SHORELINE STOCKPILE #6B Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	120		ug/kg	120	--	1
Chrysene	380		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	210		ug/kg	120	--	1
Benzo(ghi)perylene	200		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	760		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	160	--	1
Pyrene	780		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	81		30-130
Nitrobenzene-d5	88		30-130
2-Fluorobiphenyl	77		30-130
2,4,6-Tribromophenol	108		30-130
4-Terphenyl-d14	67		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/05/17 05:06
Analyst: CB
Percent Solids: 78%

Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 07:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	440		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	210		ug/kg	130	--	1
Benzo(a)pyrene	180		ug/kg	170	--	1
Benzo(b)fluoranthene	220		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03 Date Collected: 05/03/17 11:20

Client ID: SHORELINE STOCKPILE #6C Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	210		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	330		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	--	1
Pyrene	370		ug/kg	130	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	460	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		30-130
Phenol-d6	63		30-130
Nitrobenzene-d5	66		30-130
2-Fluorobiphenyl	63		30-130
2,4,6-Tribromophenol	84		30-130
4-Terphenyl-d14	56		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/05/17 05:31
Analyst: CB
Percent Solids: 76%

Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 07:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	170		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	2600		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	1000		ug/kg	130	--	1
Benzo(a)pyrene	800		ug/kg	170	--	1
Benzo(b)fluoranthene	990		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714154

Project Number: 171521.52 **Report Date:** 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04 Date Collected: 05/03/17 11:30

Client ID: SHORELINE STOCKPILE #6D Date Received: 05/03/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	390		ug/kg	130	--	1
Chrysene	940		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	750		ug/kg	130	--	1
Benzo(ghi)perylene	480		ug/kg	170	--	1
Fluorene	280		ug/kg	220	--	1
Phenanthrene	2400		ug/kg	130	--	1
Dibenzo(a,h)anthracene	140		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	520		ug/kg	170	--	1
Pyrene	2000		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	470	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	430	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		30-130
Phenol-d6	70		30-130
Nitrobenzene-d5	77		30-130
2-Fluorobiphenyl	66		30-130
2,4,6-Tribromophenol	86		30-130
4-Terphenyl-d14	56		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/04/17 21:56
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/04/17 07:21

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1000173-1					
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: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/04/17 21:56
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/04/17 07:21

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1000173-1					
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	780	--
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: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/04/17 21:56
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/04/17 07:21

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1000173-1					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		30-130
Phenol-d6	53		30-130
Nitrobenzene-d5	53		30-130
2-Fluorobiphenyl	58		30-130
2,4,6-Tribromophenol	95		30-130
4-Terphenyl-d14	86		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1000173-2 WG1000173-3								
Acenaphthene	64		72		40-140	12		30
1,2,4-Trichlorobenzene	69		74		40-140	7		30
Hexachlorobenzene	78		86		40-140	10		30
Bis(2-chloroethyl)ether	61		67		40-140	9		30
2-Chloronaphthalene	68		75		40-140	10		30
1,2-Dichlorobenzene	63		70		40-140	11		30
1,3-Dichlorobenzene	62		68		40-140	9		30
1,4-Dichlorobenzene	62		69		40-140	11		30
3,3'-Dichlorobenzidine	45		48		40-140	6		30
2,4-Dinitrotoluene	71		81		40-140	13		30
2,6-Dinitrotoluene	74		82		40-140	10		30
Azobenzene	61		68		40-140	11		30
Fluoranthene	68		78		40-140	14		30
4-Bromophenyl phenyl ether	73		84		40-140	14		30
Bis(2-chloroisopropyl)ether	52		57		40-140	9		30
Bis(2-chloroethoxy)methane	64		71		40-140	10		30
Hexachlorobutadiene	65		73		40-140	12		30
Hexachloroethane	62		69		40-140	11		30
Isophorone	65		71		40-140	9		30
Naphthalene	62		69		40-140	11		30
Nitrobenzene	66		72		40-140	9		30
Bis(2-ethylhexyl)phthalate	65		72		40-140	10		30
Butyl benzyl phthalate	70		79		40-140	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1000173-2 WG1000173-3								
Di-n-butylphthalate	67		76		40-140	13		30
Di-n-octylphthalate	68		75		40-140	10		30
Diethyl phthalate	67		76		40-140	13		30
Dimethyl phthalate	72		81		40-140	12		30
Benzo(a)anthracene	61		70		40-140	14		30
Benzo(a)pyrene	65		74		40-140	13		30
Benzo(b)fluoranthene	65		73		40-140	12		30
Benzo(k)fluoranthene	64		72		40-140	12		30
Chrysene	60		69		40-140	14		30
Acenaphthylene	70		79		40-140	12		30
Anthracene	64		73		40-140	13		30
Benzo(ghi)perylene	67		75		40-140	11		30
Fluorene	66		75		40-140	13		30
Phenanthrene	64		72		40-140	12		30
Dibenzo(a,h)anthracene	66		73		40-140	10		30
Indeno(1,2,3-cd)pyrene	68		76		40-140	11		30
Pyrene	67		76		40-140	13		30
Aniline	40		43		40-140	7		30
4-Chloroaniline	50		55		40-140	10		30
Dibenzofuran	65		73		40-140	12		30
2-Methylnaphthalene	65		72		40-140	10		30
Acetophenone	68		73		40-140	7		30
2,4,6-Trichlorophenol	76		84		30-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1000173-2 WG1000173-3								
2-Chlorophenol	68		74		30-130	8		30
2,4-Dichlorophenol	75		82		30-130	9		30
2,4-Dimethylphenol	73		79		30-130	8		30
2-Nitrophenol	78		84		30-130	7		30
4-Nitrophenol	72		81		30-130	12		30
2,4-Dinitrophenol	70		71		30-130	1		30
Pentachlorophenol	71		78		30-130	9		30
Phenol	59		63		30-130	7		30
2-Methylphenol	67		73		30-130	9		30
3-Methylphenol/4-Methylphenol	66		72		30-130	9		30
2,4,5-Trichlorophenol	74		85		30-130	14		30
Pyridine	45		50		30-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		72		30-130
Phenol-d6	68		75		30-130
Nitrobenzene-d5	71		75		30-130
2-Fluorobiphenyl	71		79		30-130
2,4,6-Tribromophenol	88		100		30-130
4-Terphenyl-d14	72		79		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/07/17 12:26
Analyst: DG
Percent Solids: 82%

Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 09:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	132000		ug/kg	39900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	98		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/07/17 12:58
Analyst: DG
Percent Solids: 82%

Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 09:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	88700		ug/kg	38600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/07/17 13:31
Analyst: DG
Percent Solids: 78%

Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 09:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	108000		ug/kg	41800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/07/17 14:03
Analyst: DG
Percent Solids: 76%

Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 09:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	154000		ug/kg	41800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	78		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 05/05/17 13:06
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 05/04/17 09:21

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-04 Batch: WG1000221-1					
TPH	ND		ug/kg	32100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-04 Batch: WG1000221-2								
TPH	92		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	81				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/05/17 08:47
Analyst: HT
Percent Solids: 82%

Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 11:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	--	1	A
Aroclor 1221	ND		ug/kg	38.6	--	1	A
Aroclor 1232	ND		ug/kg	38.6	--	1	A
Aroclor 1242	ND		ug/kg	38.6	--	1	A
Aroclor 1248	ND		ug/kg	38.6	--	1	A
Aroclor 1254	94.0		ug/kg	38.6	--	1	B
Aroclor 1260	ND		ug/kg	38.6	--	1	B
Aroclor 1262	ND		ug/kg	38.6	--	1	A
Aroclor 1268	ND		ug/kg	38.6	--	1	A
PCBs, Total	94.0		ug/kg	38.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/05/17 09:00
Analyst: HT
Percent Solids: 82%

Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 11:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.0	--	1	A
Aroclor 1221	ND		ug/kg	40.0	--	1	A
Aroclor 1232	ND		ug/kg	40.0	--	1	A
Aroclor 1242	ND		ug/kg	40.0	--	1	A
Aroclor 1248	ND		ug/kg	40.0	--	1	A
Aroclor 1254	93.0		ug/kg	40.0	--	1	B
Aroclor 1260	40.5		ug/kg	40.0	--	1	B
Aroclor 1262	ND		ug/kg	40.0	--	1	A
Aroclor 1268	ND		ug/kg	40.0	--	1	A
PCBs, Total	134		ug/kg	40.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/05/17 09:13
Analyst: HT
Percent Solids: 78%

Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 11:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.6	--	1	A
Aroclor 1221	ND		ug/kg	42.6	--	1	A
Aroclor 1232	ND		ug/kg	42.6	--	1	A
Aroclor 1242	ND		ug/kg	42.6	--	1	A
Aroclor 1248	ND		ug/kg	42.6	--	1	A
Aroclor 1254	131		ug/kg	42.6	--	1	B
Aroclor 1260	43.2		ug/kg	42.6	--	1	B
Aroclor 1262	ND		ug/kg	42.6	--	1	A
Aroclor 1268	ND		ug/kg	42.6	--	1	A
PCBs, Total	174		ug/kg	42.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/05/17 09:27
Analyst: HT
Percent Solids: 76%

Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 11:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.3	--	1	A
Aroclor 1221	ND		ug/kg	42.3	--	1	A
Aroclor 1232	ND		ug/kg	42.3	--	1	A
Aroclor 1242	ND		ug/kg	42.3	--	1	A
Aroclor 1248	ND		ug/kg	42.3	--	1	A
Aroclor 1254	117		ug/kg	42.3	--	1	B
Aroclor 1260	97.2		ug/kg	42.3	--	1	B
Aroclor 1262	ND		ug/kg	42.3	--	1	A
Aroclor 1268	85.9		ug/kg	42.3	--	1	B
PCBs, Total	300		ug/kg	42.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 05/05/17 08:07
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/04/17 11:56
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-04 Batch: WG1000296-1						
Aroclor 1016	ND		ug/kg	33.0	--	A
Aroclor 1221	ND		ug/kg	33.0	--	A
Aroclor 1232	ND		ug/kg	33.0	--	A
Aroclor 1242	ND		ug/kg	33.0	--	A
Aroclor 1248	ND		ug/kg	33.0	--	A
Aroclor 1254	ND		ug/kg	33.0	--	A
Aroclor 1260	ND		ug/kg	33.0	--	A
Aroclor 1262	ND		ug/kg	33.0	--	A
Aroclor 1268	ND		ug/kg	33.0	--	A
PCBs, Total	ND		ug/kg	33.0	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	69		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000296-2 WG1000296-3									
Aroclor 1016	74		66		40-140	11		30	A
Aroclor 1260	79		71		40-140	11		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		80		30-150	A
Decachlorobiphenyl	73		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		82		30-150	B
Decachlorobiphenyl	66		65		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/09/17 12:28
Analyst: KEG
Percent Solids: 82%

Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 10:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.47	--	1	A
Lindane	ND		ug/kg	3.16	--	1	A
Alpha-BHC	ND		ug/kg	3.95	--	1	A
Beta-BHC	ND		ug/kg	9.47	--	1	A
Heptachlor	ND		ug/kg	4.74	--	1	A
Aldrin	ND		ug/kg	9.47	--	1	A
Heptachlor epoxide	ND		ug/kg	17.8	--	1	A
Endrin	ND		ug/kg	3.95	--	1	A
Endrin ketone	ND		ug/kg	9.47	--	1	A
Dieldrin	ND		ug/kg	5.92	--	1	A
4,4'-DDE	ND		ug/kg	9.47	--	1	A
4,4'-DDD	ND		ug/kg	9.47	--	1	A
4,4'-DDT	19.7		ug/kg	17.8	--	1	B
Endosulfan I	ND		ug/kg	9.47	--	1	A
Endosulfan II	ND		ug/kg	9.47	--	1	A
Endosulfan sulfate	ND		ug/kg	3.95	--	1	A
Methoxychlor	ND		ug/kg	17.8	--	1	A
Chlordane	ND		ug/kg	77.0	--	1	A
Hexachlorobenzene	ND		ug/kg	9.47	--	1	A
Toxaphene	ND		ug/kg	178	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/05/17 16:20
Analyst: SL
Percent Solids: 82%
Methylation Date: 05/04/17 18:10

Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/04/17 02:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4000	--	1	A
MCPA	ND		ug/kg	4000	--	1	A
Dalapon	ND		ug/kg	40	--	1	A
Dicamba	ND		ug/kg	40	--	1	A
Dichloroprop	ND		ug/kg	40	--	1	A
2,4-D	ND		ug/kg	40	--	1	A
2,4-DB	ND		ug/kg	40	--	1	A
2,4,5-T	ND		ug/kg	40	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	40	--	1	A
Dinoseb	ND		ug/kg	40	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	A
DCAA	68		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/09/17 12:43
Analyst: KEG
Percent Solids: 82%

Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 10:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.66	--	1	A
Lindane	ND		ug/kg	3.22	--	1	A
Alpha-BHC	ND		ug/kg	4.02	--	1	A
Beta-BHC	ND		ug/kg	9.66	--	1	A
Heptachlor	ND		ug/kg	4.83	--	1	A
Aldrin	ND		ug/kg	9.66	--	1	A
Heptachlor epoxide	ND		ug/kg	18.1	--	1	A
Endrin	ND		ug/kg	4.02	--	1	A
Endrin ketone	ND		ug/kg	9.66	--	1	A
Dieldrin	ND		ug/kg	6.04	--	1	A
4,4'-DDE	ND		ug/kg	9.66	--	1	A
4,4'-DDD	ND		ug/kg	9.66	--	1	A
4,4'-DDT	26.6	P	ug/kg	18.1	--	1	B
Endosulfan I	ND		ug/kg	9.66	--	1	A
Endosulfan II	ND		ug/kg	9.66	--	1	B
Endosulfan sulfate	ND		ug/kg	4.02	--	1	A
Methoxychlor	ND		ug/kg	18.1	--	1	A
Chlordane	ND		ug/kg	78.5	--	1	A
Hexachlorobenzene	ND		ug/kg	9.66	--	1	B
Toxaphene	ND		ug/kg	181	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	96		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/05/17 16:40
Analyst: SL
Percent Solids: 82%
Methylation Date: 05/04/17 18:10

Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/04/17 02:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4000	--	1	A
MCPA	ND		ug/kg	4000	--	1	A
Dalapon	ND		ug/kg	40	--	1	A
Dicamba	ND		ug/kg	40	--	1	A
Dichloroprop	ND		ug/kg	40	--	1	A
2,4-D	ND		ug/kg	40	--	1	A
2,4-DB	ND		ug/kg	40	--	1	A
2,4,5-T	ND		ug/kg	40	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	40	--	1	A
Dinoseb	ND		ug/kg	40	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	A
DCAA	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/09/17 12:59
Analyst: KEG
Percent Solids: 78%

Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 10:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.2	--	1	A
Lindane	ND		ug/kg	3.41	--	1	A
Alpha-BHC	ND		ug/kg	4.26	--	1	A
Beta-BHC	ND		ug/kg	10.2	--	1	A
Heptachlor	ND		ug/kg	5.12	--	1	B
Aldrin	ND		ug/kg	10.2	--	1	A
Heptachlor epoxide	ND		ug/kg	19.2	--	1	A
Endrin	ND		ug/kg	4.26	--	1	A
Endrin ketone	ND		ug/kg	10.2	--	1	A
Dieldrin	ND		ug/kg	6.40	--	1	A
4,4'-DDE	ND		ug/kg	10.2	--	1	A
4,4'-DDD	ND		ug/kg	10.2	--	1	A
4,4'-DDT	ND		ug/kg	19.2	--	1	B
Endosulfan I	ND		ug/kg	10.2	--	1	A
Endosulfan II	ND		ug/kg	10.2	--	1	B
Endosulfan sulfate	ND		ug/kg	4.26	--	1	A
Methoxychlor	ND		ug/kg	19.2	--	1	A
Chlordane	ND		ug/kg	83.2	--	1	A
Hexachlorobenzene	ND		ug/kg	10.2	--	1	B
Toxaphene	ND		ug/kg	192	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/05/17 16:59
Analyst: SL
Percent Solids: 78%
Methylation Date: 05/04/17 18:10

Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/04/17 02:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4300	--	1	A
MCPA	ND		ug/kg	4300	--	1	A
Dalapon	ND		ug/kg	43	--	1	A
Dicamba	ND		ug/kg	43	--	1	A
Dichloroprop	ND		ug/kg	43	--	1	A
2,4-D	ND		ug/kg	43	--	1	A
2,4-DB	ND		ug/kg	43	--	1	A
2,4,5-T	ND		ug/kg	43	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	43	--	1	A
Dinoseb	ND		ug/kg	43	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	68		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/09/17 14:01
Analyst: KEG
Percent Solids: 76%

Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/04/17 10:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.5	--	1	A
Lindane	ND		ug/kg	3.49	--	1	A
Alpha-BHC	ND		ug/kg	4.36	--	1	A
Beta-BHC	ND		ug/kg	10.5	--	1	A
Heptachlor	ND		ug/kg	5.23	--	1	A
Aldrin	ND		ug/kg	10.5	--	1	A
Heptachlor epoxide	ND		ug/kg	19.6	--	1	A
Endrin	ND		ug/kg	4.36	--	1	A
Endrin ketone	ND		ug/kg	10.5	--	1	A
Dieldrin	9.41	P	ug/kg	6.54	--	1	A
4,4'-DDE	ND		ug/kg	10.5	--	1	A
4,4'-DDD	ND		ug/kg	10.5	--	1	A
4,4'-DDT	35.4	P	ug/kg	19.6	--	1	B
Endosulfan I	ND		ug/kg	10.5	--	1	A
Endosulfan II	ND	PI	ug/kg	10.5	--	1	A
Endosulfan sulfate	ND		ug/kg	4.36	--	1	A
Methoxychlor	ND		ug/kg	19.6	--	1	A
Chlordane	ND		ug/kg	85.0	--	1	A
Hexachlorobenzene	ND		ug/kg	10.5	--	1	B
Toxaphene	ND		ug/kg	196	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	90		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/05/17 17:19
Analyst: SL
Percent Solids: 76%
Methylation Date: 05/04/17 18:10

Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/04/17 02:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4300	--	1	A
MCPA	ND		ug/kg	4300	--	1	A
Dalapon	ND		ug/kg	43	--	1	A
Dicamba	ND		ug/kg	43	--	1	A
Dichloroprop	ND		ug/kg	43	--	1	A
2,4-D	ND		ug/kg	43	--	1	A
2,4-DB	ND		ug/kg	43	--	1	A
2,4,5-T	ND		ug/kg	43	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	43	--	1	A
Dinoseb	ND		ug/kg	43	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	122		30-150	A
DCAA	62		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 05/05/17 15:22
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/04/17 02:29

Methylation Date: 05/04/17 18:10

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-04 Batch: WG1000110-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	80		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 05/06/17 02:05
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 05/04/17 10:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-04 Batch: WG1000253-1						
Delta-BHC	ND		ug/kg	7.94	--	A
Lindane	ND		ug/kg	2.64	--	A
Alpha-BHC	ND		ug/kg	3.31	--	A
Beta-BHC	ND		ug/kg	7.94	--	A
Heptachlor	ND		ug/kg	3.97	--	A
Aldrin	ND		ug/kg	7.94	--	A
Heptachlor epoxide	ND		ug/kg	14.9	--	A
Endrin	ND		ug/kg	3.31	--	A
Endrin ketone	ND		ug/kg	7.94	--	A
Dieldrin	ND		ug/kg	4.96	--	A
4,4'-DDE	ND		ug/kg	7.94	--	A
4,4'-DDD	ND		ug/kg	7.94	--	A
4,4'-DDT	ND		ug/kg	14.9	--	A
Endosulfan I	ND		ug/kg	7.94	--	A
Endosulfan II	ND		ug/kg	7.94	--	A
Endosulfan sulfate	ND		ug/kg	3.31	--	A
Methoxychlor	ND		ug/kg	14.9	--	A
Chlordane	ND		ug/kg	64.5	--	A
Hexachlorobenzene	ND		ug/kg	7.94	--	A
Toxaphene	ND		ug/kg	149	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	93		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000110-2 WG1000110-3									
MCPP	114		111		40-140	3		30	A
MCPA	85		83		40-140	2		30	A
Dalapon	79		72		40-140	9		30	A
Dicamba	84		82		40-140	2		30	A
Dichloroprop	110		112		40-140	2		30	A
2,4-D	87		91		40-140	4		30	A
2,4-DB	91		92		40-140	1		30	A
2,4,5-T	81		83		40-140	2		30	A
2,4,5-TP (Silvex)	81		79		40-140	3		30	A
Dinoseb	**4**	Q	**6**	Q	40-140	**55**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	107		102		30-150	A
DCAA	81		80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000253-2 WG1000253-3									
Delta-BHC	80		93		40-140	15		30	A
Lindane	84		98		40-140	15		30	A
Alpha-BHC	88		102		40-140	15		30	A
Beta-BHC	85		95		40-140	11		30	A
Heptachlor	86		101		40-140	16		30	A
Aldrin	87		102		40-140	16		30	A
Heptachlor epoxide	84		96		40-140	13		30	A
Endrin	89		105		40-140	16		30	A
Endrin ketone	75		90		40-140	18		30	A
Dieldrin	93		111		40-140	18		30	A
4,4'-DDE	91		107		40-140	16		30	A
4,4'-DDD	85		101		40-140	17		30	A
4,4'-DDT	95		113		40-140	17		30	A
Endosulfan I	84		101		40-140	18		30	A
Endosulfan II	82		99		40-140	19		30	A
Endosulfan sulfate	56		68		40-140	19		30	A
Methoxychlor	91		103		40-140	12		30	A
Hexachlorobenzene	80		94		40-140	16		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-04 Batch: WG1000253-2 WG1000253-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		100		30-150	B
Decachlorobiphenyl	79		97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		106		30-150	A
Decachlorobiphenyl	94		109		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

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: WG1000253-4 WG1000253-5									
Toxaphene	82		82		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		85		30-150	B
Decachlorobiphenyl	86		84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		91		30-150	A
Decachlorobiphenyl	93		91		30-150	A

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 82%

Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	27		mg/kg	2.3	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Arsenic, Total	180		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Barium, Total	61		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.23	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Cadmium, Total	0.92		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Chromium, Total	17		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Lead, Total	1400		mg/kg	2.3	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Mercury, Total	0.697		mg/kg	0.078	--	1	05/04/17 07:45	05/04/17 13:24	EPA 7471B	97,7471B	BV
Nickel, Total	5.4		mg/kg	1.2	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.3	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Silver, Total	2.8		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.3	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Vanadium, Total	15		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS
Zinc, Total	140		mg/kg	2.3	--	1	05/04/17 09:50	05/04/17 12:35	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 82%

Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	17		mg/kg	2.4	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Arsenic, Total	180		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Barium, Total	64		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.24	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Cadmium, Total	1.1		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Chromium, Total	19		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Lead, Total	820		mg/kg	2.4	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Mercury, Total	3.48		mg/kg	0.384	--	5	05/04/17 07:45	05/05/17 13:29	EPA 7471B	97,7471B	BV
Nickel, Total	8.6		mg/kg	1.2	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Selenium, Total	4.5		mg/kg	2.4	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Silver, Total	2.6		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.4	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Vanadium, Total	19		mg/kg	0.47	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS
Zinc, Total	130		mg/kg	2.4	--	1	05/04/17 09:50	05/04/17 12:39	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 78%

Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	24		mg/kg	2.5	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Arsenic, Total	110		mg/kg	0.50	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Barium, Total	67		mg/kg	0.50	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.25	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Cadmium, Total	1.1		mg/kg	0.50	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Chromium, Total	16		mg/kg	0.50	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Lead, Total	940		mg/kg	2.5	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Mercury, Total	1.82		mg/kg	0.081	--	1	05/04/17 07:45	05/04/17 13:32	EPA 7471B	97,7471B	BV
Nickel, Total	6.7		mg/kg	1.2	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.5	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Silver, Total	2.7		mg/kg	0.50	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.5	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Vanadium, Total	16		mg/kg	0.50	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS
Zinc, Total	130		mg/kg	2.5	--	1	05/04/17 09:50	05/04/17 12:43	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 76%

Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	59		mg/kg	2.6	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Arsenic, Total	170		mg/kg	0.52	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Barium, Total	110		mg/kg	0.52	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.26	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Cadmium, Total	3.6		mg/kg	0.52	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Chromium, Total	20		mg/kg	0.52	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Lead, Total	2800		mg/kg	2.6	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Mercury, Total	77.1		mg/kg	8.44	--	100	05/04/17 07:45	05/04/17 15:35	EPA 7471B	97,7471B	BV
Nickel, Total	10		mg/kg	1.3	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Selenium, Total	3.1		mg/kg	2.6	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Silver, Total	13		mg/kg	0.52	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.6	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Vanadium, Total	22		mg/kg	0.52	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS
Zinc, Total	290		mg/kg	2.6	--	1	05/04/17 09:50	05/04/17 12:47	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

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: WG1000138-1										
Mercury, Total	ND		mg/kg	0.083	--	1	05/04/17 07:45	05/04/17 13:19	97,7471B	BV

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: WG1000209-1										
Antimony, Total	ND		mg/kg	2.0	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Barium, Total	ND		mg/kg	0.40	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Chromium, Total	ND		mg/kg	0.40	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Lead, Total	ND		mg/kg	2.0	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Nickel, Total	ND		mg/kg	1.0	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Selenium, Total	ND		mg/kg	2.0	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Silver, Total	ND		mg/kg	0.40	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Thallium, Total	ND		mg/kg	2.0	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS
Zinc, Total	ND		mg/kg	2.0	--	1	05/04/17 09:50	05/04/17 12:23	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1000138-2 WG1000138-3 SRM Lot Number: D091-540								
Mercury, Total	108		104		72-128	4		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1000209-2 WG1000209-3 SRM Lot Number: D091-540								
Antimony, Total	171		171		1-200	0		30
Arsenic, Total	110		103		80-121	7		30
Barium, Total	100		100		84-117	0		30
Beryllium, Total	101		99		83-117	2		30
Cadmium, Total	104		102		83-117	2		30
Chromium, Total	105		105		80-119	0		30
Lead, Total	110		103		82-118	7		30
Nickel, Total	108		108		83-117	0		30
Selenium, Total	101		101		79-121	0		30
Silver, Total	102		105		76-124	3		30
Thallium, Total	99		106		80-121	7		30
Vanadium, Total	104		104		78-122	0		30
Zinc, Total	103		98		82-118	5		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:00
Date Received: 05/03/17
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	05/06/17 17:39	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:10
Date Received: 05/03/17
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	05/06/17 17:39	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:20
Date Received: 05/03/17
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	05/06/17 17:39	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:30
Date Received: 05/03/17
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	05/06/17 17:39	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:00
Date Received: 05/03/17
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	820		umhos/cm	10	--	1	-	05/04/17 03:17	1,9050A	VB
Solids, Total	82.2		%	0.100	NA	1	-	05/04/17 06:09	121,2540G	RI
pH (H)	7.9		SU	-	NA	1	-	05/03/17 23:16	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/08/17 23:45	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:41	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:35	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:10
Date Received: 05/03/17
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	1000		umhos/cm	10	--	1	-	05/04/17 03:17	1,9050A	VB
Solids, Total	81.6		%	0.100	NA	1	-	05/04/17 06:09	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	05/03/17 23:16	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/08/17 23:45	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:41	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:35	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:20
Date Received: 05/03/17
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	910		umhos/cm	10	--	1	-	05/04/17 03:17	1,9050A	VB
Solids, Total	77.7		%	0.100	NA	1	-	05/04/17 06:09	121,2540G	RI
pH (H)	8.2		SU	-	NA	1	-	05/03/17 23:16	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/08/17 23:45	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:41	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:35	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714154-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:30
Date Received: 05/03/17
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	1000		umhos/cm	10	--	1	-	05/04/17 03:17	1,9050A	VB
Solids, Total	75.6		%	0.100	NA	1	-	05/04/17 06:09	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	05/03/17 23:16	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/08/17 23:45	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:42	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:35	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714154
Report Date: 05/09/17

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: WG1000415-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:40	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1000418-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	05/04/17 18:45	05/04/17 20:34	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714154

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1000076-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1000121-1								
Specific Conductance	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1000415-2								
Cyanide, Reactive	65		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1000418-2								
Sulfide, Reactive	88		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1001477-1								
Flash Point	100		-		96-104	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1000121-2 QC Sample: L1714154-01 Client ID: SHORELINE STOCKPILE #6A						
Specific Conductance @ 25 C	820	810	umhos/cm	1		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 05/03/2017 23:44

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1714154-01A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-01B	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-01C	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-01D	Vial Large Septa unpreserved (4o	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(2)
L1714154-01E	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1714154-01F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.5	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)
L1714154-01G	Glass 500ml/16oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1714154-02A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-02B	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-02C	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-02D	Vial Large Septa unpreserved (4o	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714154
Report Date: 05/09/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1714154-02E	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1714154-02F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.5	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)
L1714154-02G	Glass 500ml/16oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1714154-03A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-03B	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-03C	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-03D	Vial Large Septa unpreserved (4o	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(2)
L1714154-03E	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1714154-03F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.5	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: L1714154
Report Date: 05/09/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1714154-03G	Glass 500ml/16oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1714154-04A	Vial MeOH preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-04B	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-04C	Vial water preserved	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(14)
L1714154-04D	Vial Large Septa unpreserved (4o	A	N/A	2.5	Y	Absent	MCP-8260HLW-10(2)
L1714154-04E	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1714154-04F	Metals Only - Glass 60mL/2oz unp	A	N/A	2.5	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)
L1714154-04G	Glass 500ml/16oz unpreserved	A	N/A	2.5	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),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 EVERETT	**Lab Number:**	L1714154
Project Number:	171521.52	**Report Date:**	05/09/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1714154
Project Number:	171521.52	**Report Date:**	05/09/17

Data Qualifiers

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:**	L1714154
Project Number:	171521.52	**Report Date:**	05/09/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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

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: 5/3/17

ALPHA Job #: L1714154

Project Information

Project Name: ~~Wynn Boston Harbor~~ Wynn Everett

Project Location: 1 Horizon Way, Everett MA

Project #: ~~01.0171521.52~~ 171521.52

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: 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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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, ignt	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						
14154 -01	Shoreline Stockpile #6A	5/3/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-02	Shoreline Stockpile #6B	5/3/17	1110	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-03	Shoreline Stockpile #6C	5/3/17	1120	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-04	Shoreline Stockpile #6D	5/3/17	1130	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	5/3/17 @ 13:50	AM2	5/3/17 1350
	5/3/17 1824		5/3/17 1824

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.

CHAIN OF CUSTODY

PAGE 1 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: 5/3/17

ALPHA Job #: L1714154

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: 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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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)							
14154 -01	Shoreline Stockpile #6A	5/3/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-02	Shoreline Stockpile #6B	5/3/17	1110	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-03	Shoreline Stockpile #6C	5/3/17	1120	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
-04	Shoreline Stockpile #6D	5/3/17	1130	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	5/3/17 @ 13:50	AM2	5/3/17 1350
	5/3/17 1824		5/3/17 1824

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714154
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1000750-5	**Lab File ID**	: V04170505A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 05/05/17 09:13

Client Sample No.	Lab Sample ID	Analysis Date
WG1000750-3LCS	WG1000750-3	05/05/17 07:28
WG1000750-4LCSD	WG1000750-4	05/05/17 07:54
SHORELINE STOCKPILE #6C	L1714154-03	05/05/17 17:04
SHORELINE STOCKPILE #6D	L1714154-04	05/05/17 17:30

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714154
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1000685-5	**Lab File ID**	: V04170505A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 05/05/17 09:13

Client Sample No.	Lab Sample ID	Analysis Date
WG1000685-3LCS	WG1000685-3	05/05/17 07:28
WG1000685-4LCSD	WG1000685-4	05/05/17 07:54
SHORELINE STOCKPILE #6A	L1714154-01	05/05/17 11:50
SHORELINE STOCKPILE #6B	L1714154-02	05/05/17 12:16

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714154	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 05/05/17 07:28	
Lab File ID	: V04170505A01	Init. Calib. Date(s)	: 04/03/17	04/03/17
Sample No	: WG1000685-2	Init. Calib. Times	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	110	0
Dichlorodifluoromethane	0.333	0.285	-	14.4	20	91	0
Chloromethane	0.529	0.556	-	-5.1	20	108	0
Vinyl chloride	0.38	0.361	-	5	20	99	0
Bromomethane	20	19.734	-	1.3	20	100	0
Chloroethane	0.178	0.167	-	6.2	20	104	0
Trichlorofluoromethane	0.35	0.32	-	8.6	20	93	0
Ethyl ether	0.109	0.115	-	-5.5	20	115	0
1,1-Dichloroethene	0.235	0.181	-	23*	20	73	0
Carbon disulfide	20	17.672	-	11.6	20	90	0
Freon-113	0.235	0.207	-	11.9	20	92	0
Acrolein	20	19.214	-	3.9	20	106	0
Methylene chloride	0.319	0.295	-	7.5	20	101	0
Acetone	0.068	0.101	-	-48.5*	20	154	0
trans-1,2-Dichloroethene	0.296	0.278	-	6.1	20	99	0
Methyl acetate	0.21	0.255	-	-21.4*	20	142	0
Methyl tert-butyl ether	0.792	0.813	-	-2.7	20	109	0
tert-Butyl alcohol	100	131.122	-	-31.1*	20	134	0
Diisopropyl ether	1.327	1.418	-	-6.9	20	112	0
1,1-Dichloroethane	0.696	0.645	-	7.3	20	98	0
Halothane	0.219	0.189	-	13.7	20	89	0
Acrylonitrile	0.115	0.142	-	-23.5*	20	129	0
Ethyl tert-butyl ether	1.237	1.233	-	0.3	20	105	0
Vinyl acetate	0.773	0.86	-	-11.3	20	116	0
cis-1,2-Dichloroethene	0.331	0.301	-	9.1	20	96	0
2,2-Dichloropropane	0.442	0.407	-	7.9	20	97	0
Bromochloromethane	0.154	0.151	-	1.9	20	100	0
Cyclohexane	0.67	0.616	-	8.1	20	95	0
Chloroform	0.538	0.495	-	8	20	96	0
Ethyl acetate	0.301	0.415	-	-37.9*	20	142	0
Carbon tetrachloride	0.385	0.336	-	12.7	20	89	0
Tetrahydrofuran	0.112	0.154	-	-37.5*	20	138	0
Dibromofluoromethane	0.27	0.271	-	-0.4	20	109	0
1,1,1-Trichloroethane	0.47	0.425	-	9.6	20	94	0
2-Butanone	0.129	0.17	-	-31.8*	20	144	0
1,1-Dichloropropene	0.392	0.36	-	8.2	20	94	0
Benzene	1.127	1.075	-	4.6	20	102	0
tert-Amyl methyl ether	0.765	0.775	-	-1.3	20	108	0
1,2-Dichloroethane-d4	0.29	0.31	-	-6.9	20	119	0
1,2-Dichloroethane	0.464	0.463	-	0.2	20	107	0
Methyl cyclohexane	0.415	0.378	-	8.9	20	93	0
Trichloroethene	0.314	0.291	-	7.3	20	95	0
Dibromomethane	0.182	0.187	-	-2.7	20	107	0
1,2-Dichloropropane	0.399	0.374	-	6.3	20	100	0
2-Chloroethyl vinyl ether	20	50.795	-	-154*	20	261	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714154	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 05/05/17 07:28	
Lab File ID	: V04170505A01	Init. Calib. Date(s)	: 04/03/17	04/03/17
Sample No	: WG1000685-2	Init. Calib. Times	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.383	-	8.6	20	97	0
1,4-Dioxane	0.00261	0.00341	-	-30.7*	20	138	0
cis-1,3-Dichloropropene	0.482	0.46	-	4.6	20	101	0
Chlorobenzene-d5	1	1	-	0	20	115	0
Toluene-d8	1.304	1.279	-	1.9	20	112	0
Toluene	0.999	0.864	-	13.5	20	96	0
4-Methyl-2-pentanone	0.18	0.203	-	-12.8	20	118	0
Tetrachloroethene	0.407	0.339	-	16.7	20	90	0
trans-1,3-Dichloropropene	0.566	0.527	-	6.9	20	102	0
Ethyl methacrylate	0.465	0.464	-	0.2	20	106	0
1,1,2-Trichloroethane	0.293	0.285	-	2.7	20	106	0
Chlorodibromomethane	0.45	0.39	-	13.3	20	96	0
1,3-Dichloropropane	0.568	0.55	-	3.2	20	107	0
1,2-Dibromoethane	0.367	0.348	-	5.2	20	104	0
2-Hexanone	0.276	0.366	-	-32.6*	20	143	0
Chlorobenzene	1.131	0.984	-	13	20	96	0
Ethylbenzene	1.876	1.627	-	13.3	20	95	0
1,1,1,2-Tetrachloroethane	0.427	0.35	-	18	20	92	0
p/m Xylene	0.712	0.636	-	10.7	20	96	0
o Xylene	0.68	0.614	-	9.7	20	97	0
Styrene	1.158	1.026	-	11.4	20	96	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	116	0
Bromoform	0.54	0.45	-	16.7	20	94	0
Isopropylbenzene	3.762	3.159	-	16	20	93	0
4-Bromofluorobenzene	0.994	1.027	-	-3.3	20	122	0
Bromobenzene	0.982	0.788	-	19.8	20	89	0
n-Propylbenzene	4.463	3.809	-	14.7	20	95	0
1,4-Dichlorobutane	1.794	1.687	-	6	20	105	0
1,1,2,2-Tetrachloroethane	20	20.823	-	-4.1	20	107	0
4-Ethyltoluene	3.661	3.114	-	14.9	20	93	0
2-Chlorotoluene	2.734	2.281	-	16.6	20	94	0
1,3,5-Trimethylbenzene	3.213	2.722	-	15.3	20	95	0
1,2,3-Trichloropropane	20	21.516	-	-7.6	20	113	0
trans-1,4-Dichloro-2-buten	0.315	0.301	-	4.4	20	101	0
4-Chlorotoluene	2.81	2.334	-	16.9	20	93	0
tert-Butylbenzene	2.666	2.194	-	17.7	20	92	0
1,2,4-Trimethylbenzene	3.264	2.7	-	17.3	20	92	0
sec-Butylbenzene	4.088	3.417	-	16.4	20	92	0
p-Isopropyltoluene	3.429	2.873	-	16.2	20	92	0
1,3-Dichlorobenzene	1.885	1.496	-	20.6*	20	88	0
1,4-Dichlorobenzene	20	17.668	-	11.7	20	91	0
p-Diethylbenzene	2.018	1.686	-	16.5	20	91	0
n-Butylbenzene	3.179	2.831	-	10.9	20	97	0
1,2-Dichlorobenzene	1.772	1.45	-	18.2	20	89	0
1,2,4,5-Tetramethylbenzene	3.373	2.77	-	17.9	20	92	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714154	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 05/05/17 07:28	
Lab File ID	: V04170505A01	**Init. Calib. Date(s)**	: 04/03/17	04/03/17
Sample No	: WG1000685-2	**Init. Calib. Times**	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.136	0.136	-	0	20	107	0
1,3,5-Trichlorobenzene	20	17.452	-	12.7	20	87	0
Hexachlorobutadiene	0.546	0.412	-	24.5*	20	84	0
1,2,4-Trichlorobenzene	20	17.42	-	12.9	20	90	0
Naphthalene	20	19.391	-	3	20	103	0
1,2,3-Trichlorobenzene	20	17.796	-	11	20	92	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714154	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 05/05/17 07:28	
Lab File ID	: V04170505A01	Init. Calib. Date(s)	: 04/03/17	04/03/17
Sample No	: WG1000750-2	Init. Calib. Times	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	110	0
Dichlorodifluoromethane	0.333	0.285	-	14.4	20	91	0
Chloromethane	0.529	0.556	-	-5.1	20	108	0
Vinyl chloride	0.38	0.361	-	5	20	99	0
Bromomethane	20	19.734	-	1.3	20	100	0
Chloroethane	0.178	0.167	-	6.2	20	104	0
Trichlorofluoromethane	0.35	0.32	-	8.6	20	93	0
Ethyl ether	0.109	0.115	-	-5.5	20	115	0
1,1-Dichloroethene	0.235	0.181	-	23*	20	73	0
Carbon disulfide	20	17.672	-	11.6	20	90	0
Freon-113	0.235	0.207	-	11.9	20	92	0
Acrolein	20	19.214	-	3.9	20	106	0
Methylene chloride	0.319	0.295	-	7.5	20	101	0
Acetone	0.068	0.101	-	-48.5*	20	154	0
trans-1,2-Dichloroethene	0.296	0.278	-	6.1	20	99	0
Methyl acetate	0.21	0.255	-	-21.4*	20	142	0
Methyl tert-butyl ether	0.792	0.813	-	-2.7	20	109	0
tert-Butyl alcohol	100	131.122	-	-31.1*	20	134	0
Diisopropyl ether	1.327	1.418	-	-6.9	20	112	0
1,1-Dichloroethane	0.696	0.645	-	7.3	20	98	0
Halothane	0.219	0.189	-	13.7	20	89	0
Acrylonitrile	0.115	0.142	-	-23.5*	20	129	0
Ethyl tert-butyl ether	1.237	1.233	-	0.3	20	105	0
Vinyl acetate	0.773	0.86	-	-11.3	20	116	0
cis-1,2-Dichloroethene	0.331	0.301	-	9.1	20	96	0
2,2-Dichloropropane	0.442	0.407	-	7.9	20	97	0
Bromochloromethane	0.154	0.151	-	1.9	20	100	0
Cyclohexane	0.67	0.616	-	8.1	20	95	0
Chloroform	0.538	0.495	-	8	20	96	0
Ethyl acetate	0.301	0.415	-	-37.9*	20	142	0
Carbon tetrachloride	0.385	0.336	-	12.7	20	89	0
Tetrahydrofuran	0.112	0.154	-	-37.5*	20	138	0
Dibromofluoromethane	0.27	0.271	-	-0.4	20	109	0
1,1,1-Trichloroethane	0.47	0.425	-	9.6	20	94	0
2-Butanone	0.129	0.17	-	-31.8*	20	144	0
1,1-Dichloropropene	0.392	0.36	-	8.2	20	94	0
Benzene	1.127	1.075	-	4.6	20	102	0
tert-Amyl methyl ether	0.765	0.775	-	-1.3	20	108	0
1,2-Dichloroethane-d4	0.29	0.31	-	-6.9	20	119	0
1,2-Dichloroethane	0.464	0.463	-	0.2	20	107	0
Methyl cyclohexane	0.415	0.378	-	8.9	20	93	0
Trichloroethene	0.314	0.291	-	7.3	20	95	0
Dibromomethane	0.182	0.187	-	-2.7	20	107	0
1,2-Dichloropropane	0.399	0.374	-	6.3	20	100	0
2-Chloroethyl vinyl ether	20	50.795	-	-154*	20	261	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714154	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 05/05/17 07:28	
Lab File ID	: V04170505A01	Init. Calib. Date(s)	: 04/03/17	04/03/17
Sample No	: WG1000750-2	Init. Calib. Times	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.383	-	8.6	20	97	0
1,4-Dioxane	0.00261	0.00341	-	-30.7*	20	138	0
cis-1,3-Dichloropropene	0.482	0.46	-	4.6	20	101	0
Chlorobenzene-d5	1	1	-	0	20	115	0
Toluene-d8	1.304	1.279	-	1.9	20	112	0
Toluene	0.999	0.864	-	13.5	20	96	0
4-Methyl-2-pentanone	0.18	0.203	-	-12.8	20	118	0
Tetrachloroethene	0.407	0.339	-	16.7	20	90	0
trans-1,3-Dichloropropene	0.566	0.527	-	6.9	20	102	0
Ethyl methacrylate	0.465	0.464	-	0.2	20	106	0
1,1,2-Trichloroethane	0.293	0.285	-	2.7	20	106	0
Chlorodibromomethane	0.45	0.39	-	13.3	20	96	0
1,3-Dichloropropane	0.568	0.55	-	3.2	20	107	0
1,2-Dibromoethane	0.367	0.348	-	5.2	20	104	0
2-Hexanone	0.276	0.366	-	-32.6*	20	143	0
Chlorobenzene	1.131	0.984	-	13	20	96	0
Ethylbenzene	1.876	1.627	-	13.3	20	95	0
1,1,1,2-Tetrachloroethane	0.427	0.35	-	18	20	92	0
p/m Xylene	0.712	0.636	-	10.7	20	96	0
o Xylene	0.68	0.614	-	9.7	20	97	0
Styrene	1.158	1.026	-	11.4	20	96	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	116	0
Bromoform	0.54	0.45	-	16.7	20	94	0
Isopropylbenzene	3.762	3.159	-	16	20	93	0
4-Bromofluorobenzene	0.994	1.027	-	-3.3	20	122	0
Bromobenzene	0.982	0.788	-	19.8	20	89	0
n-Propylbenzene	4.463	3.809	-	14.7	20	95	0
1,4-Dichlorobutane	1.794	1.687	-	6	20	105	0
1,1,2,2-Tetrachloroethane	20	20.823	-	-4.1	20	107	0
4-Ethyltoluene	3.661	3.114	-	14.9	20	93	0
2-Chlorotoluene	2.734	2.281	-	16.6	20	94	0
1,3,5-Trimethylbenzene	3.213	2.722	-	15.3	20	95	0
1,2,3-Trichloropropane	20	21.516	-	-7.6	20	113	0
trans-1,4-Dichloro-2-buten	0.315	0.301	-	4.4	20	101	0
4-Chlorotoluene	2.81	2.334	-	16.9	20	93	0
tert-Butylbenzene	2.666	2.194	-	17.7	20	92	0
1,2,4-Trimethylbenzene	3.264	2.7	-	17.3	20	92	0
sec-Butylbenzene	4.088	3.417	-	16.4	20	92	0
p-Isopropyltoluene	3.429	2.873	-	16.2	20	92	0
1,3-Dichlorobenzene	1.885	1.496	-	20.6*	20	88	0
1,4-Dichlorobenzene	20	17.668	-	11.7	20	91	0
p-Diethylbenzene	2.018	1.686	-	16.5	20	91	0
n-Butylbenzene	3.179	2.831	-	10.9	20	97	0
1,2-Dichlorobenzene	1.772	1.45	-	18.2	20	89	0
1,2,4,5-Tetramethylbenzene	3.373	2.77	-	17.9	20	92	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714154	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 05/05/17 07:28	
Lab File ID	: V04170505A01	**Init. Calib. Date(s)**	: 04/03/17	04/03/17
Sample No	: WG1000750-2	**Init. Calib. Times**	: 15:25	18:29
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.136	0.136	-	0	20	107	0
1,3,5-Trichlorobenzene	20	17.452	-	12.7	20	87	0
Hexachlorobutadiene	0.546	0.412	-	24.5*	20	84	0
1,2,4-Trichlorobenzene	20	17.42	-	12.9	20	90	0
Naphthalene	20	19.391	-	3	20	103	0
1,2,3-Trichlorobenzene	20	17.796	-	11	20	92	0

* Value outside of QC limits.

Data File Name	**11170505b-01.d**
Data File Path	**I:\Pest11\170505b**
Operator	**PEST11:keg**
Date Acquired	**5/6/2017 0:21**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170505b01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
Endrin	4.70	459936213.9	% Breakdown
Endrin Aldehyde	5.17	4427040.03	
Endrin Ketone	5.66	12636874.23	3.58%
4,4'-DDT	4.96	738605257.8	% Breakdown
4,4'-DDE	4.31	5637077.716	
4,4'-DDD	4.76	18209182.68	3.13%
Endrin #2	5.28	736053428.40	% Breakdown
Endrin Aldehyde #2	5.66	5165267.37	
Endrin Ketone #2	6.21	16656638.13	2.88%
4,4'-DDT #2	5.56	1139209093	
4,4'-DDE #2	4.92	7495651.187	
4,4'-DDD #2	5.34	27673950.92	2.99%

######### Data File Path **I:\Pest17\150918**

wg1000253-1,2,3,4,5

I:\Pest11\170509a\11170509a-01.d

Data File Name	**11170509a-01.d**
Data File Path	**I:\Pest11\170509a**
Operator	**PEST11:keg**
Date Acquired	**5/9/2017 11:02**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170509a01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
Endrin	4.68	498175146.2	% Breakdown
Endrin Aldehyde	5.14	1255522.22	
Endrin Ketone	5.63	9093026.286	2.04%
4,4'-DDT	4.94	764440694.4	% Breakdown
4,4'-DDE	4.28	4273014.289	
4,4'-DDD	4.73	14008122.9	2.34%
Endrin #2	5.26	785399150.52	% Breakdown
Endrin Aldehyde #2	5.64	1602369.69	
Endrin Ketone #2	6.19	11268054.94	1.61%
4,4'-DDT #2	5.54	1193799088	
4,4'-DDE #2	4.90	5703981.066	
4,4'-DDD #2	5.32	19433467.58	2.06%

######### Data File Path **I:\Pest17\150918**

L1714154-01,02,03,04

ANALYTICAL REPORT

Lab Number:	L1714542
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:	05/09/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1714542
Report Date: 05/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1714542-01	SHORELINE STOCKPILE #6A	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:00	05/03/17
L1714542-02	SHORELINE STOCKPILE #6B	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:10	05/03/17
L1714542-03	SHORELINE STOCKPILE #6C	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:20	05/03/17
L1714542-04	SHORELINE STOCKPILE #6D	SOIL	1 HORIZON WAY, EVERETT, MA	05/03/17 11:30	05/03/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714542
Report Date: 05/09/17

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: 05/09/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1714542
Project Number: 171521.52
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714542-01
Client ID: SHORELINE STOCKPILE #6A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:00
Date Received: 05/03/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	05/08/17 15:23	05/08/17 18:47	EPA 3015	1,6010C	AB
Lead, TCLP	5.6		mg/l	0.50	--	1	05/08/17 15:23	05/08/17 18:47	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1714542
Project Number: 171521.52
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714542-02
Client ID: SHORELINE STOCKPILE #6B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:10
Date Received: 05/03/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	05/08/17 15:23	05/08/17 19:04	EPA 3015	1,6010C	AB
Lead, TCLP	4.3		mg/l	0.50	--	1	05/08/17 15:23	05/08/17 19:04	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1714542
Project Number: 171521.52
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714542-03
Client ID: SHORELINE STOCKPILE #6C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:20
Date Received: 05/03/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	05/08/17 15:23	05/08/17 19:08	EPA 3015	1,6010C	AB
Lead, TCLP	5.4		mg/l	0.50	--	1	05/08/17 15:23	05/08/17 19:08	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1714542
Project Number: 171521.52
Report Date: 05/09/17

SAMPLE RESULTS

Lab ID: L1714542-04
Client ID: SHORELINE STOCKPILE #6D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/03/17 11:30
Date Received: 05/03/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/05/17 21:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.0	--	1	05/08/17 15:23	05/08/17 19:12	EPA 3015	1,6010C	AB
Lead, TCLP	16		mg/l	0.50	--	1	05/08/17 15:23	05/08/17 19:12	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	--	1	05/09/17 07:35	05/09/17 10:32	EPA 7470A	1,7470A	MG

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714542
Report Date: 05/09/17

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): 01-04 Batch: WG1001355-1										
Arsenic, TCLP	ND		mg/l	1.0	--	1	05/08/17 15:23	05/08/17 18:43	1,6010C	AB
Lead, TCLP	ND		mg/l	0.50	--	1	05/08/17 15:23	05/08/17 18:43	1,6010C	AB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/05/17 21:09

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): 04 Batch: WG1001535-1										
Mercury, TCLP	ND		mg/l	0.0010	--	1	05/09/17 07:35	05/09/17 10:28	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 05/05/17 21:09

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714542

Report Date: 05/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1001355-2								
Arsenic, TCLP	108		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 Batch: WG1001535-2								
Mercury, TCLP	110		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714542
Report Date: 05/09/17

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): 01-04 QC Batch ID: WG1001355-3 QC Sample: L1714542-01 Client ID: SHORELINE STOCKPILE #6A												
Arsenic, TCLP	ND	1.2	1.4	117		-	-		75-125	-		20
Lead, TCLP	5.6	5.1	11	106		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1001535-3 QC Sample: L1714542-04 Client ID: SHORELINE STOCKPILE #6D												
Mercury, TCLP	ND	0.025	0.0260	104		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714542
Report Date: 05/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1001355-4 QC Sample: L1714542-01 Client ID: SHORELINE STOCKPILE #6A						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	5.6	5.6	mg/l	0		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1001535-4 QC Sample: L1714542-04 Client ID: SHORELINE STOCKPILE #6D						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714542
Report Date: 05/09/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1714542-01A	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	-
L1714542-01X	Plastic 120ml HNO3 preserved Ext	A	<2	2.5	Y	Absent	AS-CI(180),PB-CI(180)
L1714542-01X9	Tumble Vessel	A	N/A	2.5	Y	Absent	-
L1714542-02A	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	-
L1714542-02X	Plastic 120ml HNO3 preserved Ext	A	<2	2.5	Y	Absent	AS-CI(180),PB-CI(180)
L1714542-02X9	Tumble Vessel	A	N/A	2.5	Y	Absent	-
L1714542-03A	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	-
L1714542-03X	Plastic 120ml HNO3 preserved Ext	A	<2	2.5	Y	Absent	AS-CI(180),PB-CI(180)
L1714542-03X9	Tumble Vessel	A	N/A	2.5	Y	Absent	-
L1714542-04A	Glass 250ml/8oz unpreserved	A	N/A	2.5	Y	Absent	-
L1714542-04X	Plastic 120ml HNO3 preserved Ext	A	<2	2.5	Y	Absent	AS-CI(180),PB-CI(180)
L1714542-04X9	Tumble Vessel	A	N/A	2.5	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1714542
Project Number:	171521.52	**Report Date:**	05/09/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1714542
Project Number:	171521.52	**Report Date:**	05/09/17

Data Qualifiers

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:**	L1714542
Project Number:	171521.52	**Report Date:**	05/09/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 5/4/17

L1714542 rs 5/5/17

CHAIN OF CUSTODY

PAGE 1 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: 5/3/17

ALPHA Job #: L1714542

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~~ Wynn Everett
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.0171521.52~~ 171521.52
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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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, Ignit.	Herbicides, Pesticides w/ Toxiphene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	tclp As, Pb					Sample Specific
14542-01	Shoreline Stockpile #6A	5/3/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	X	☐	☐	☐	☐	
14542-02	Shoreline Stockpile #6B	5/3/17	1110	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	X	☐	☐	☐	☐	
14542-03	Shoreline Stockpile #6C	5/3/17	1120	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	X	☐	☐	☐	☐	
14542-04	Shoreline Stockpile #6D	5/3/17	1130	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	X	X	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

TCLP-HG

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	5/3/17 @ 13:50		5/3/17 1350
	5/3/17 1824		5/3/17 1824

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:	L1714964
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:	05/12/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1714964
Report Date: 05/12/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1714964-01	MIXED PILE #1 (SW)	SOIL	1 HORIZON WAY, EVERETT, MA	05/09/17 13:30	05/09/17
L1714964-02	MIXED PILE #1 (NW)	SOIL	1 HORIZON WAY, EVERETT, MA	05/09/17 13:40	05/09/17
L1714964-03	MIXED PILE #1 (NE)	SOIL	1 HORIZON WAY, EVERETT, MA	05/09/17 13:50	05/09/17
L1714964-04	MIXED PILE #1 (SE)	SOIL	1 HORIZON WAY, EVERETT, MA	05/09/17 14:00	05/09/17
L1714964-05	SHORELINE STOCKPILE#6A/B	SOIL	1 HORIZON WAY, EVERETT, MA	05/09/17 14:05	05/09/17
L1714964-06	SHORELINE STOCKPILE#6B/C	SOIL	1 HORIZON WAY, EVERETT, MA	05/09/17 14:10	05/09/17

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

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: L1714964
Report Date: 05/12/17

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:** L1714964
Project Number: 171521.52 **Report Date:** 05/12/17

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

L1714964-02: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to excessive sample weight. A High Level analysis was performed and is reported.

In reference to question G:

L1714964-02, -03 and -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1714964-01 through -04, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0872) and 1,4-dioxane (0.0023), as well as the average response factor for 1,4-dioxane.

The continuing calibration standards, associated with L1714964-01 through -04, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. A copy of the continuing calibration standards is included as an addendum to this report.

Semivolatile Organics

In reference to question G:

L1714964-02: The sample has elevated detection limits due to the dilution required by the sample matrix. One or more of the target analytes did not achieve the requested CAM reporting limits.

PCBs

In reference to question G:

L1714964-01: One or more of the target analytes did not achieve the requested CAM reporting limits.

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Case Narrative (continued)

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1714964-01 through -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG1001820-2/-3 LCS/LCSD recoveries, associated with L1714964-01 through -04, are below the acceptance criteria for dinoseb (10%/4%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

Non-MCP Related Narratives

Specific Conductance @ 25 C

The WG1001847-2 Laboratory Duplicate RPD (33%), performed on L1714964-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 05/12/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/11/17 12:19
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	6.5	--	1
1,1-Dichloroethane	ND		ug/kg	0.98	--	1
Chloroform	ND		ug/kg	0.98	--	1
Carbon tetrachloride	ND		ug/kg	0.65	--	1
1,2-Dichloropropane	ND		ug/kg	2.3	--	1
Dibromochloromethane	ND		ug/kg	0.65	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	--	1
Tetrachloroethene	ND		ug/kg	0.65	--	1
Chlorobenzene	ND		ug/kg	0.65	--	1
Trichlorofluoromethane	ND		ug/kg	2.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.65	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	--	1
Bromodichloromethane	ND		ug/kg	0.65	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.65	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	--	1
1,1-Dichloropropene	ND		ug/kg	2.6	--	1
Bromoform	ND		ug/kg	2.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	--	1
Benzene	ND		ug/kg	0.65	--	1
Toluene	ND		ug/kg	0.98	--	1
Ethylbenzene	ND		ug/kg	0.65	--	1
Chloromethane	ND		ug/kg	2.6	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.65	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.98	--	1
Trichloroethene	ND		ug/kg	0.65	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01 Date Collected: 05/09/17 13:30

Client ID: MIXED PILE #1 (SW) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.65	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.65	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	6.5	--	1
Acetone	ND		ug/kg	23	--	1
Carbon disulfide	ND		ug/kg	2.6	--	1
Methyl ethyl ketone	ND		ug/kg	6.5	--	1
Methyl isobutyl ketone	ND		ug/kg	6.5	--	1
2-Hexanone	ND		ug/kg	6.5	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	2.6	--	1
2,2-Dichloropropane	ND		ug/kg	3.2	--	1
1,2-Dibromoethane	ND		ug/kg	2.6	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	--	1
Bromobenzene	ND		ug/kg	3.2	--	1
n-Butylbenzene	ND		ug/kg	0.65	--	1
sec-Butylbenzene	ND		ug/kg	0.65	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	2.6	--	1
Isopropylbenzene	ND		ug/kg	0.65	--	1
p-Isopropyltoluene	ND		ug/kg	0.65	--	1
Naphthalene	ND		ug/kg	2.6	--	1
n-Propylbenzene	ND		ug/kg	0.65	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.2	--	1
Diisopropyl Ether	ND		ug/kg	2.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.6	--	1
1,4-Dioxane	ND		ug/kg	26	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	103		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/09/17 13:40
Date Received: 05/09/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/11/17 13:36
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	350	--	1
1,1-Dichloroethane	ND		ug/kg	52	--	1
Chloroform	ND		ug/kg	52	--	1
Carbon tetrachloride	ND		ug/kg	35	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	35	--	1
1,1,2-Trichloroethane	ND		ug/kg	52	--	1
Tetrachloroethene	ND		ug/kg	35	--	1
Chlorobenzene	ND		ug/kg	35	--	1
Trichlorofluoromethane	ND		ug/kg	140	--	1
1,2-Dichloroethane	ND		ug/kg	35	--	1
1,1,1-Trichloroethane	ND		ug/kg	35	--	1
Bromodichloromethane	ND		ug/kg	35	--	1
trans-1,3-Dichloropropene	ND		ug/kg	35	--	1
cis-1,3-Dichloropropene	ND		ug/kg	35	--	1
1,3-Dichloropropene, Total	ND		ug/kg	35	--	1
1,1-Dichloropropene	ND		ug/kg	140	--	1
Bromoform	ND		ug/kg	140	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	35	--	1
Benzene	ND		ug/kg	35	--	1
Toluene	ND		ug/kg	52	--	1
Ethylbenzene	ND		ug/kg	35	--	1
Chloromethane	ND		ug/kg	140	--	1
Bromomethane	ND		ug/kg	70	--	1
Vinyl chloride	ND		ug/kg	70	--	1
Chloroethane	ND		ug/kg	70	--	1
1,1-Dichloroethene	ND		ug/kg	35	--	1
trans-1,2-Dichloroethene	ND		ug/kg	52	--	1
Trichloroethene	ND		ug/kg	35	--	1
1,2-Dichlorobenzene	ND		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02 Date Collected: 05/09/17 13:40

Client ID: MIXED PILE #1 (NW) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	140	--	1
1,4-Dichlorobenzene	ND		ug/kg	140	--	1
Methyl tert butyl ether	ND		ug/kg	70	--	1
p/m-Xylene	ND		ug/kg	70	--	1
o-Xylene	ND		ug/kg	70	--	1
Xylenes, Total	ND		ug/kg	70	--	1
cis-1,2-Dichloroethene	ND		ug/kg	35	--	1
1,2-Dichloroethene, Total	ND		ug/kg	35	--	1
Dibromomethane	ND		ug/kg	140	--	1
1,2,3-Trichloropropane	ND		ug/kg	140	--	1
Styrene	ND		ug/kg	70	--	1
Dichlorodifluoromethane	ND		ug/kg	350	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	140	--	1
Methyl ethyl ketone	ND		ug/kg	350	--	1
Methyl isobutyl ketone	ND		ug/kg	350	--	1
2-Hexanone	ND		ug/kg	350	--	1
Bromochloromethane	ND		ug/kg	140	--	1
Tetrahydrofuran	ND		ug/kg	140	--	1
2,2-Dichloropropane	ND		ug/kg	170	--	1
1,2-Dibromoethane	ND		ug/kg	140	--	1
1,3-Dichloropropane	ND		ug/kg	140	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	35	--	1
Bromobenzene	ND		ug/kg	170	--	1
n-Butylbenzene	ND		ug/kg	35	--	1
sec-Butylbenzene	ND		ug/kg	35	--	1
tert-Butylbenzene	ND		ug/kg	140	--	1
o-Chlorotoluene	ND		ug/kg	140	--	1
p-Chlorotoluene	ND		ug/kg	140	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	--	1
Hexachlorobutadiene	ND		ug/kg	140	--	1
Isopropylbenzene	ND		ug/kg	35	--	1
p-Isopropyltoluene	ND		ug/kg	35	--	1
Naphthalene	ND		ug/kg	140	--	1
n-Propylbenzene	ND		ug/kg	35	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02 Date Collected: 05/09/17 13:40

Client ID: MIXED PILE #1 (NW) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	170	--	1
Diisopropyl Ether	ND		ug/kg	140	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	140	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	140	--	1
1,4-Dioxane	ND		ug/kg	1400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/09/17 13:50
Date Received: 05/09/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/11/17 14:01
Analyst: MV
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	340	--	1
1,1-Dichloroethane	ND		ug/kg	52	--	1
Chloroform	ND		ug/kg	52	--	1
Carbon tetrachloride	ND		ug/kg	34	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	34	--	1
1,1,2-Trichloroethane	ND		ug/kg	52	--	1
Tetrachloroethene	ND		ug/kg	34	--	1
Chlorobenzene	ND		ug/kg	34	--	1
Trichlorofluoromethane	ND		ug/kg	140	--	1
1,2-Dichloroethane	ND		ug/kg	34	--	1
1,1,1-Trichloroethane	ND		ug/kg	34	--	1
Bromodichloromethane	ND		ug/kg	34	--	1
trans-1,3-Dichloropropene	ND		ug/kg	34	--	1
cis-1,3-Dichloropropene	ND		ug/kg	34	--	1
1,3-Dichloropropene, Total	ND		ug/kg	34	--	1
1,1-Dichloropropene	ND		ug/kg	140	--	1
Bromoform	ND		ug/kg	140	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	--	1
Benzene	ND		ug/kg	34	--	1
Toluene	ND		ug/kg	52	--	1
Ethylbenzene	ND		ug/kg	34	--	1
Chloromethane	ND		ug/kg	140	--	1
Bromomethane	ND		ug/kg	69	--	1
Vinyl chloride	ND		ug/kg	69	--	1
Chloroethane	ND		ug/kg	69	--	1
1,1-Dichloroethene	ND		ug/kg	34	--	1
trans-1,2-Dichloroethene	ND		ug/kg	52	--	1
Trichloroethene	ND		ug/kg	34	--	1
1,2-Dichlorobenzene	ND		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03 Date Collected: 05/09/17 13:50

Client ID: MIXED PILE #1 (NE) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	140	--	1
1,4-Dichlorobenzene	ND		ug/kg	140	--	1
Methyl tert butyl ether	ND		ug/kg	69	--	1
p/m-Xylene	ND		ug/kg	69	--	1
o-Xylene	ND		ug/kg	69	--	1
Xylenes, Total	ND		ug/kg	69	--	1
cis-1,2-Dichloroethene	ND		ug/kg	34	--	1
1,2-Dichloroethene, Total	ND		ug/kg	34	--	1
Dibromomethane	ND		ug/kg	140	--	1
1,2,3-Trichloropropane	ND		ug/kg	140	--	1
Styrene	ND		ug/kg	69	--	1
Dichlorodifluoromethane	ND		ug/kg	340	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	140	--	1
Methyl ethyl ketone	ND		ug/kg	340	--	1
Methyl isobutyl ketone	ND		ug/kg	340	--	1
2-Hexanone	ND		ug/kg	340	--	1
Bromochloromethane	ND		ug/kg	140	--	1
Tetrahydrofuran	ND		ug/kg	140	--	1
2,2-Dichloropropane	ND		ug/kg	170	--	1
1,2-Dibromoethane	ND		ug/kg	140	--	1
1,3-Dichloropropane	ND		ug/kg	140	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	--	1
Bromobenzene	ND		ug/kg	170	--	1
n-Butylbenzene	ND		ug/kg	34	--	1
sec-Butylbenzene	ND		ug/kg	34	--	1
tert-Butylbenzene	ND		ug/kg	140	--	1
o-Chlorotoluene	ND		ug/kg	140	--	1
p-Chlorotoluene	ND		ug/kg	140	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	--	1
Hexachlorobutadiene	ND		ug/kg	140	--	1
Isopropylbenzene	ND		ug/kg	34	--	1
p-Isopropyltoluene	ND		ug/kg	34	--	1
Naphthalene	230		ug/kg	140	--	1
n-Propylbenzene	ND		ug/kg	34	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03 Date Collected: 05/09/17 13:50

Client ID: MIXED PILE #1 (NE) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	170	--	1
Diisopropyl Ether	ND		ug/kg	140	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	140	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	140	--	1
1,4-Dioxane	ND		ug/kg	1400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/11/17 14:27
Analyst: MV
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	250	--	1
1,1-Dichloroethane	ND		ug/kg	37	--	1
Chloroform	ND		ug/kg	37	--	1
Carbon tetrachloride	ND		ug/kg	25	--	1
1,2-Dichloropropane	ND		ug/kg	87	--	1
Dibromochloromethane	ND		ug/kg	25	--	1
1,1,2-Trichloroethane	ND		ug/kg	37	--	1
Tetrachloroethene	ND		ug/kg	25	--	1
Chlorobenzene	ND		ug/kg	25	--	1
Trichlorofluoromethane	ND		ug/kg	100	--	1
1,2-Dichloroethane	ND		ug/kg	25	--	1
1,1,1-Trichloroethane	ND		ug/kg	25	--	1
Bromodichloromethane	ND		ug/kg	25	--	1
trans-1,3-Dichloropropene	ND		ug/kg	25	--	1
cis-1,3-Dichloropropene	ND		ug/kg	25	--	1
1,3-Dichloropropene, Total	ND		ug/kg	25	--	1
1,1-Dichloropropene	ND		ug/kg	100	--	1
Bromoform	ND		ug/kg	100	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--	1
Benzene	ND		ug/kg	25	--	1
Toluene	ND		ug/kg	37	--	1
Ethylbenzene	ND		ug/kg	25	--	1
Chloromethane	ND		ug/kg	100	--	1
Bromomethane	ND		ug/kg	50	--	1
Vinyl chloride	ND		ug/kg	50	--	1
Chloroethane	ND		ug/kg	50	--	1
1,1-Dichloroethene	ND		ug/kg	25	--	1
trans-1,2-Dichloroethene	ND		ug/kg	37	--	1
Trichloroethene	ND		ug/kg	25	--	1
1,2-Dichlorobenzene	ND		ug/kg	100	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04 Date Collected: 05/09/17 14:00

Client ID: MIXED PILE #1 (SE) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	100	--	1
1,4-Dichlorobenzene	ND		ug/kg	100	--	1
Methyl tert butyl ether	ND		ug/kg	50	--	1
p/m-Xylene	ND		ug/kg	50	--	1
o-Xylene	ND		ug/kg	50	--	1
Xylenes, Total	ND		ug/kg	50	--	1
cis-1,2-Dichloroethene	ND		ug/kg	25	--	1
1,2-Dichloroethene, Total	ND		ug/kg	25	--	1
Dibromomethane	ND		ug/kg	100	--	1
1,2,3-Trichloropropane	ND		ug/kg	100	--	1
Styrene	ND		ug/kg	50	--	1
Dichlorodifluoromethane	ND		ug/kg	250	--	1
Acetone	ND		ug/kg	900	--	1
Carbon disulfide	ND		ug/kg	100	--	1
Methyl ethyl ketone	ND		ug/kg	250	--	1
Methyl isobutyl ketone	ND		ug/kg	250	--	1
2-Hexanone	ND		ug/kg	250	--	1
Bromochloromethane	ND		ug/kg	100	--	1
Tetrahydrofuran	ND		ug/kg	100	--	1
2,2-Dichloropropane	ND		ug/kg	120	--	1
1,2-Dibromoethane	ND		ug/kg	100	--	1
1,3-Dichloropropane	ND		ug/kg	100	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--	1
Bromobenzene	ND		ug/kg	120	--	1
n-Butylbenzene	ND		ug/kg	25	--	1
sec-Butylbenzene	ND		ug/kg	25	--	1
tert-Butylbenzene	ND		ug/kg	100	--	1
o-Chlorotoluene	ND		ug/kg	100	--	1
p-Chlorotoluene	ND		ug/kg	100	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	100	--	1
Hexachlorobutadiene	ND		ug/kg	100	--	1
Isopropylbenzene	ND		ug/kg	25	--	1
p-Isopropyltoluene	ND		ug/kg	25	--	1
Naphthalene	180		ug/kg	100	--	1
n-Propylbenzene	ND		ug/kg	25	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	--	1

Project Name: WYNN EVERETT
Lab Number: L1714964
Project Number: 171521.52
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	120	--	1
Diisopropyl Ether	ND		ug/kg	100	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--	1
1,4-Dioxane	ND		ug/kg	1000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/17 08:29
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-04 Batch: WG1002370-10					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/17 08:29
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-04 Batch: WG1002370-10					
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/17 08:29
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-04 Batch: WG1002370-10					
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Diethyl ether	ND		ug/kg	250	--
Diisopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	2000	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Halothane	ND		ug/kg	2000	--
Ethyl Acetate	ND		ug/kg	1000	--
Freon-113	ND		ug/kg	1000	--
Vinyl acetate	ND		ug/kg	500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/17 08:29
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1002457-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/17 08:29
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1002457-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/17 08:29
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1002457-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/11/17 08:29
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1002457-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-04 Batch: WG1002370-8 WG1002370-9								
Methylene chloride	98		97		70-130	1		20
1,1-Dichloroethane	102		102		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	101		98		70-130	3		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	90		89		70-130	1		20
1,1,2-Trichloroethane	95		94		70-130	1		20
Tetrachloroethene	97		93		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	109		106		70-130	3		20
1,2-Dichloroethane	98		98		70-130	0		20
1,1,1-Trichloroethane	103		100		70-130	3		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	98		97		70-130	1		20
1,1-Dichloropropene	104		102		70-130	2		20
Bromoform	86		86		70-130	0		20
1,1,2,2-Tetrachloroethane	90		89		70-130	1		20
Benzene	102		100		70-130	2		20
Toluene	94		92		70-130	2		20
Ethylbenzene	95		92		70-130	3		20
Chloromethane	103		99		70-130	4		20
Bromomethane	122		116		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-04 Batch: WG1002370-8 WG1002370-9								
Vinyl chloride	112		108		70-130	4		20
Chloroethane	116		112		70-130	4		20
1,1-Dichloroethene	107		103		70-130	4		20
trans-1,2-Dichloroethene	102		101		70-130	1		20
Trichloroethene	102		99		70-130	3		20
1,2-Dichlorobenzene	88		88		70-130	0		20
1,3-Dichlorobenzene	90		90		70-130	0		20
1,4-Dichlorobenzene	88		88		70-130	0		20
Methyl tert butyl ether	97		96		70-130	1		20
p/m-Xylene	97		94		70-130	3		20
o-Xylene	95		92		70-130	3		20
cis-1,2-Dichloroethene	101		97		70-130	4		20
Dibromomethane	100		97		70-130	3		20
1,2,3-Trichloropropane	90		88		70-130	2		20
Styrene	94		92		70-130	2		20
Dichlorodifluoromethane	106		104		70-130	2		20
Acetone	101		94		70-130	7		20
Carbon disulfide	94		90		70-130	4		20
Methyl ethyl ketone	107		102		70-130	5		20
Methyl isobutyl ketone	92		88		70-130	4		20
2-Hexanone	87		84		70-130	4		20
Bromochloromethane	103		100		70-130	3		20
Tetrahydrofuran	104		100		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-04 Batch: WG1002370-8 WG1002370-9								
2,2-Dichloropropane	104		102		70-130	2		20
1,2-Dibromoethane	93		91		70-130	2		20
1,3-Dichloropropane	95		93		70-130	2		20
1,1,1,2-Tetrachloroethane	94		92		70-130	2		20
Bromobenzene	88		87		70-130	1		20
n-Butylbenzene	95		95		70-130	0		20
sec-Butylbenzene	94		94		70-130	0		20
tert-Butylbenzene	91		90		70-130	1		20
o-Chlorotoluene	90		91		70-130	1		20
p-Chlorotoluene	89		88		70-130	1		20
1,2-Dibromo-3-chloropropane	79		83		70-130	5		20
Hexachlorobutadiene	88		85		70-130	3		20
Isopropylbenzene	91		90		70-130	1		20
p-Isopropyltoluene	92		92		70-130	0		20
Naphthalene	83		83		70-130	0		20
n-Propylbenzene	92		91		70-130	1		20
1,2,3-Trichlorobenzene	84		84		70-130	0		20
1,2,4-Trichlorobenzene	85		85		70-130	0		20
1,3,5-Trimethylbenzene	91		90		70-130	1		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20
Diethyl ether	98		99		70-130	1		20
Diisopropyl Ether	98		98		70-130	0		20
Ethyl-Tert-Butyl-Ether	96		96		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-04 Batch: WG1002370-8 WG1002370-9								
Tertiary-Amyl Methyl Ether	96		97		70-130	1		20
1,4-Dioxane	106		101		70-130	5		20
2-Chloroethylvinyl ether	100		100		70-130	0		20
Halothane	105		103		70-130	2		20
Ethyl Acetate	100		97		70-130	3		20
Freon-113	110		108		70-130	2		20
Vinyl acetate	97		98		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1002457-3 WG1002457-4								
Methylene chloride	98		97		70-130	1		20
1,1-Dichloroethane	102		102		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	101		98		70-130	3		20
1,2-Dichloropropane	100		99		70-130	1		20
Dibromochloromethane	90		89		70-130	1		20
1,1,2-Trichloroethane	95		94		70-130	1		20
Tetrachloroethene	97		93		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	109		106		70-130	3		20
1,2-Dichloroethane	98		98		70-130	0		20
1,1,1-Trichloroethane	103		100		70-130	3		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	98		97		70-130	1		20
1,1-Dichloropropene	104		102		70-130	2		20
Bromoform	86		86		70-130	0		20
1,1,2,2-Tetrachloroethane	90		89		70-130	1		20
Benzene	102		100		70-130	2		20
Toluene	94		92		70-130	2		20
Ethylbenzene	95		92		70-130	3		20
Chloromethane	103		99		70-130	4		20
Bromomethane	122		116		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1002457-3 WG1002457-4								
Vinyl chloride	112		108		70-130	4		20
Chloroethane	116		112		70-130	4		20
1,1-Dichloroethene	107		103		70-130	4		20
trans-1,2-Dichloroethene	102		101		70-130	1		20
Trichloroethene	102		99		70-130	3		20
1,2-Dichlorobenzene	88		88		70-130	0		20
1,3-Dichlorobenzene	90		90		70-130	0		20
1,4-Dichlorobenzene	88		88		70-130	0		20
Methyl tert butyl ether	97		96		70-130	1		20
p/m-Xylene	97		94		70-130	3		20
o-Xylene	95		92		70-130	3		20
cis-1,2-Dichloroethene	101		97		70-130	4		20
Dibromomethane	100		97		70-130	3		20
1,4-Dichlorobutane	89		89		70-130	0		20
1,2,3-Trichloropropane	90		88		70-130	2		20
Styrene	94		92		70-130	2		20
Dichlorodifluoromethane	106		104		70-130	2		20
Acetone	101		94		70-130	7		20
Carbon disulfide	94		90		70-130	4		20
Methyl ethyl ketone	107		102		70-130	5		20
Methyl isobutyl ketone	92		88		70-130	4		20
2-Hexanone	87		84		70-130	4		20
Ethyl methacrylate	87		85		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1002457-3 WG1002457-4								
Acrylonitrile	103		101		70-130	2		20
Bromochloromethane	103		100		70-130	3		20
Tetrahydrofuran	104		100		70-130	4		20
2,2-Dichloropropane	104		102		70-130	2		20
1,2-Dibromoethane	93		91		70-130	2		20
1,3-Dichloropropane	95		93		70-130	2		20
1,1,1,2-Tetrachloroethane	94		92		70-130	2		20
Bromobenzene	88		87		70-130	1		20
n-Butylbenzene	95		95		70-130	0		20
sec-Butylbenzene	94		94		70-130	0		20
tert-Butylbenzene	91		90		70-130	1		20
o-Chlorotoluene	90		91		70-130	1		20
p-Chlorotoluene	89		88		70-130	1		20
1,2-Dibromo-3-chloropropane	79		83		70-130	5		20
Hexachlorobutadiene	88		85		70-130	3		20
Isopropylbenzene	91		90		70-130	1		20
p-Isopropyltoluene	92		92		70-130	0		20
Naphthalene	83		83		70-130	0		20
n-Propylbenzene	92		91		70-130	1		20
1,2,3-Trichlorobenzene	84		84		70-130	0		20
1,2,4-Trichlorobenzene	85		85		70-130	0		20
1,3,5-Trimethylbenzene	91		90		70-130	1		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1002457-3 WG1002457-4								
trans-1,4-Dichloro-2-butene	91		93		70-130	2		20
Diethyl ether	98		99		70-130	1		20
Diisopropyl Ether	98		98		70-130	0		20
Ethyl-Tert-Butyl-Ether	96		96		70-130	0		20
Tertiary-Amyl Methyl Ether	96		97		70-130	1		20
1,4-Dioxane	106		101		70-130	5		20
2-Chloroethylvinyl ether	100		100		70-130	0		20
Halothane	105		103		70-130	2		20
Ethyl Acetate	100		97		70-130	3		20
Freon-113	110		108		70-130	2		20
Vinyl acetate	97		98		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/10/17 20:10
Analyst: ALS
Percent Solids: 89%

Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 21:45

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	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	140	--	1
Isophorone	ND		ug/kg	160	--	1
Naphthalene	ND		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	160	--	1
Bis(2-ethylhexyl)phthalate	910		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	820		ug/kg	110	--	1
Benzo(a)pyrene	550		ug/kg	140	--	1
Benzo(b)fluoranthene	1100		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01 Date Collected: 05/09/17 13:30

Client ID: MIXED PILE #1 (SW) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	310		ug/kg	110	--	1
Chrysene	1000		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	250		ug/kg	110	--	1
Benzo(ghi)perylene	400		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	1200		ug/kg	110	--	1
Dibenzo(a,h)anthracene	150		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	440		ug/kg	140	--	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	160	--	1
2,4-Dimethylphenol	ND		ug/kg	180	--	1
2-Nitrophenol	ND		ug/kg	390	--	1
4-Nitrophenol	ND		ug/kg	260	--	1
2,4-Dinitrophenol	ND		ug/kg	880	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		30-130
Phenol-d6	85		30-130
Nitrobenzene-d5	84		30-130
2-Fluorobiphenyl	89		30-130
2,4,6-Tribromophenol	81		30-130
4-Terphenyl-d14	79		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02 D
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/11/17 04:52
Analyst: ALS
Percent Solids: 92%

Date Collected: 05/09/17 13:40
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 21:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	1200		ug/kg	710	--	5
1,2,4-Trichlorobenzene	ND		ug/kg	880	--	5
Hexachlorobenzene	ND		ug/kg	530	--	5
Bis(2-chloroethyl)ether	ND		ug/kg	800	--	5
2-Chloronaphthalene	ND		ug/kg	880	--	5
1,2-Dichlorobenzene	ND		ug/kg	880	--	5
1,3-Dichlorobenzene	ND		ug/kg	880	--	5
1,4-Dichlorobenzene	ND		ug/kg	880	--	5
3,3'-Dichlorobenzidine	ND		ug/kg	880	--	5
2,4-Dinitrotoluene	ND		ug/kg	880	--	5
2,6-Dinitrotoluene	ND		ug/kg	880	--	5
Azobenzene	ND		ug/kg	880	--	5
Fluoranthene	12000		ug/kg	530	--	5
4-Bromophenyl phenyl ether	ND		ug/kg	880	--	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	--	5
Bis(2-chloroethoxy)methane	ND		ug/kg	950	--	5
Hexachlorobutadiene	ND		ug/kg	880	--	5
Hexachloroethane	ND		ug/kg	710	--	5
Isophorone	ND		ug/kg	800	--	5
Naphthalene	ND		ug/kg	880	--	5
Nitrobenzene	ND		ug/kg	800	--	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	880	--	5
Butyl benzyl phthalate	ND		ug/kg	880	--	5
Di-n-butylphthalate	ND		ug/kg	880	--	5
Di-n-octylphthalate	ND		ug/kg	880	--	5
Diethyl phthalate	ND		ug/kg	880	--	5
Dimethyl phthalate	ND		ug/kg	880	--	5
Benzo(a)anthracene	5000		ug/kg	530	--	5
Benzo(a)pyrene	4500		ug/kg	710	--	5
Benzo(b)fluoranthene	5900		ug/kg	530	--	5

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02 D Date Collected: 05/09/17 13:40

Client ID: MIXED PILE #1 (NW) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	2300		ug/kg	530	--	5
Chrysene	4700		ug/kg	530	--	5
Acenaphthylene	ND		ug/kg	710	--	5
Anthracene	2100		ug/kg	530	--	5
Benzo(ghi)perylene	2800		ug/kg	710	--	5
Fluorene	1000		ug/kg	880	--	5
Phenanthrene	8000		ug/kg	530	--	5
Dibenzo(a,h)anthracene	840		ug/kg	530	--	5
Indeno(1,2,3-cd)pyrene	3200		ug/kg	710	--	5
Pyrene	9500		ug/kg	530	--	5
Aniline	ND		ug/kg	1100	--	5
4-Chloroaniline	ND		ug/kg	880	--	5
Dibenzofuran	ND		ug/kg	880	--	5
2-Methylnaphthalene	ND		ug/kg	1100	--	5
Acetophenone	ND		ug/kg	880	--	5
2,4,6-Trichlorophenol	ND		ug/kg	530	--	5
2-Chlorophenol	ND		ug/kg	880	--	5
2,4-Dichlorophenol	ND		ug/kg	800	--	5
2,4-Dimethylphenol	ND		ug/kg	880	--	5
2-Nitrophenol	ND		ug/kg	1900	--	5
4-Nitrophenol	ND		ug/kg	1200	--	5
2,4-Dinitrophenol	ND		ug/kg	4200	--	5
Pentachlorophenol	ND		ug/kg	1800	--	5
Phenol	ND		ug/kg	880	--	5
2-Methylphenol	ND		ug/kg	880	--	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	--	5
2,4,5-Trichlorophenol	ND		ug/kg	880	--	5
Pyridine	ND		ug/kg	950	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	78		30-130
2-Fluorobiphenyl	88		30-130
2,4,6-Tribromophenol	118		30-130
4-Terphenyl-d14	93		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/10/17 21:02
Analyst: ALS
Percent Solids: 88%

Date Collected: 05/09/17 13:50
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 21:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	290		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	3900		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	210		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	1900		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	1900		ug/kg	110	--	1
Benzo(a)pyrene	1600		ug/kg	150	--	1
Benzo(b)fluoranthene	2100		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03 Date Collected: 05/09/17 13:50

Client ID: MIXED PILE #1 (NE) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	720		ug/kg	110	--	1
Chrysene	1700		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	750		ug/kg	110	--	1
Benzo(ghi)perylene	840		ug/kg	150	--	1
Fluorene	280		ug/kg	180	--	1
Phenanthrene	2600		ug/kg	110	--	1
Dibenzo(a,h)anthracene	260		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	1000		ug/kg	150	--	1
Pyrene	3200		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		30-130
Phenol-d6	89		30-130
Nitrobenzene-d5	90		30-130
2-Fluorobiphenyl	98		30-130
2,4,6-Tribromophenol	94		30-130
4-Terphenyl-d14	96		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04 D
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/12/17 09:46
Analyst: ALS
Percent Solids: 94%

Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 21:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	400		ug/kg	280	--	2
1,2,4-Trichlorobenzene	ND		ug/kg	350	--	2
Hexachlorobenzene	ND		ug/kg	210	--	2
Bis(2-chloroethyl)ether	ND		ug/kg	310	--	2
2-Chloronaphthalene	ND		ug/kg	350	--	2
1,2-Dichlorobenzene	ND		ug/kg	350	--	2
1,3-Dichlorobenzene	ND		ug/kg	350	--	2
1,4-Dichlorobenzene	ND		ug/kg	350	--	2
3,3'-Dichlorobenzidine	ND		ug/kg	350	--	2
2,4-Dinitrotoluene	ND		ug/kg	350	--	2
2,6-Dinitrotoluene	ND		ug/kg	350	--	2
Azobenzene	ND		ug/kg	350	--	2
Fluoranthene	7300		ug/kg	210	--	2
4-Bromophenyl phenyl ether	ND		ug/kg	350	--	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	420	--	2
Bis(2-chloroethoxy)methane	ND		ug/kg	370	--	2
Hexachlorobutadiene	ND		ug/kg	350	--	2
Hexachloroethane	ND		ug/kg	280	--	2
Isophorone	ND		ug/kg	310	--	2
Naphthalene	730		ug/kg	350	--	2
Nitrobenzene	ND		ug/kg	310	--	2
Bis(2-ethylhexyl)phthalate	8800		ug/kg	350	--	2
Butyl benzyl phthalate	ND		ug/kg	350	--	2
Di-n-butylphthalate	ND		ug/kg	350	--	2
Di-n-octylphthalate	ND		ug/kg	350	--	2
Diethyl phthalate	ND		ug/kg	350	--	2
Dimethyl phthalate	ND		ug/kg	350	--	2
Benzo(a)anthracene	3700		ug/kg	210	--	2
Benzo(a)pyrene	3400		ug/kg	280	--	2
Benzo(b)fluoranthene	4800		ug/kg	210	--	2

Project Name: WYNN EVERETT **Lab Number:** L1714964

Project Number: 171521.52 **Report Date:** 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04 D Date Collected: 05/09/17 14:00

Client ID: MIXED PILE #1 (SE) Date Received: 05/09/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	1700		ug/kg	210	--	2
Chrysene	3600		ug/kg	210	--	2
Acenaphthylene	330		ug/kg	280	--	2
Anthracene	1300		ug/kg	210	--	2
Benzo(ghi)perylene	2100		ug/kg	280	--	2
Fluorene	460		ug/kg	350	--	2
Phenanthrene	4300		ug/kg	210	--	2
Dibenzo(a,h)anthracene	590		ug/kg	210	--	2
Indeno(1,2,3-cd)pyrene	2400		ug/kg	280	--	2
Pyrene	6200		ug/kg	210	--	2
Aniline	ND		ug/kg	420	--	2
4-Chloroaniline	ND		ug/kg	350	--	2
Dibenzofuran	360		ug/kg	350	--	2
2-Methylnaphthalene	ND		ug/kg	420	--	2
Acetophenone	ND		ug/kg	350	--	2
2,4,6-Trichlorophenol	ND		ug/kg	210	--	2
2-Chlorophenol	ND		ug/kg	350	--	2
2,4-Dichlorophenol	ND		ug/kg	310	--	2
2,4-Dimethylphenol	ND		ug/kg	350	--	2
2-Nitrophenol	ND		ug/kg	750	--	2
4-Nitrophenol	ND		ug/kg	480	--	2
2,4-Dinitrophenol	ND		ug/kg	1700	--	2
Pentachlorophenol	ND		ug/kg	690	--	2
Phenol	ND		ug/kg	350	--	2
2-Methylphenol	ND		ug/kg	350	--	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	500	--	2
2,4,5-Trichlorophenol	ND		ug/kg	350	--	2
Pyridine	ND		ug/kg	370	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		30-130
Phenol-d6	86		30-130
Nitrobenzene-d5	84		30-130
2-Fluorobiphenyl	93		30-130
2,4,6-Tribromophenol	90		30-130
4-Terphenyl-d14	92		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/09/17 14:54
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/09/17 01:46

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1001488-1					
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: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/09/17 14:54
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/09/17 01:46

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1001488-1					
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: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/09/17 14:54
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/09/17 01:46

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1001488-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		30-130
Phenol-d6	69		30-130
Nitrobenzene-d5	63		30-130
2-Fluorobiphenyl	68		30-130
2,4,6-Tribromophenol	55		30-130
4-Terphenyl-d14	78		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1001488-2 WG1001488-3								
Acenaphthene	65		79		40-140	19		30
1,2,4-Trichlorobenzene	62		78		40-140	23		30
Hexachlorobenzene	70		83		40-140	17		30
Bis(2-chloroethyl)ether	64		80		40-140	22		30
2-Chloronaphthalene	70		85		40-140	19		30
1,2-Dichlorobenzene	57		71		40-140	22		30
1,3-Dichlorobenzene	55		68		40-140	21		30
1,4-Dichlorobenzene	56		69		40-140	21		30
3,3'-Dichlorobenzidine	42		52		40-140	21		30
2,4-Dinitrotoluene	77		93		40-140	19		30
2,6-Dinitrotoluene	79		93		40-140	16		30
Azobenzene	70		84		40-140	18		30
Fluoranthene	69		84		40-140	20		30
4-Bromophenyl phenyl ether	69		83		40-140	18		30
Bis(2-chloroisopropyl)ether	63		80		40-140	24		30
Bis(2-chloroethoxy)methane	73		92		40-140	23		30
Hexachlorobutadiene	56		69		40-140	21		30
Hexachloroethane	54		68		40-140	23		30
Isophorone	71		90		40-140	24		30
Naphthalene	65		79		40-140	19		30
Nitrobenzene	68		85		40-140	22		30
Bis(2-ethylhexyl)phthalate	80		97		40-140	19		30
Butyl benzyl phthalate	73		88		40-140	19		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1001488-2 WG1001488-3								
Di-n-butylphthalate	72		87		40-140	19		30
Di-n-octylphthalate	80		99		40-140	21		30
Diethyl phthalate	69		83		40-140	18		30
Dimethyl phthalate	72		87		40-140	19		30
Benzo(a)anthracene	69		84		40-140	20		30
Benzo(a)pyrene	74		90		40-140	20		30
Benzo(b)fluoranthene	72		88		40-140	20		30
Benzo(k)fluoranthene	73		88		40-140	19		30
Chrysene	69		85		40-140	21		30
Acenaphthylene	74		88		40-140	17		30
Anthracene	72		89		40-140	21		30
Benzo(ghi)perylene	72		86		40-140	18		30
Fluorene	71		85		40-140	18		30
Phenanthrene	72		88		40-140	20		30
Dibenzo(a,h)anthracene	73		88		40-140	19		30
Indeno(1,2,3-cd)pyrene	73		88		40-140	19		30
Pyrene	70		85		40-140	19		30
Aniline	48		59		40-140	21		30
4-Chloroaniline	51		63		40-140	21		30
Dibenzofuran	69		83		40-140	18		30
2-Methylnaphthalene	69		83		40-140	18		30
Acetophenone	71		89		40-140	23		30
2,4,6-Trichlorophenol	72		87		30-130	19		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1001488-2 WG1001488-3								
2-Chlorophenol	68		88		30-130	26		30
2,4-Dichlorophenol	77		96		30-130	22		30
2,4-Dimethylphenol	82		102		30-130	22		30
2-Nitrophenol	70		89		30-130	24		30
4-Nitrophenol	76		90		30-130	17		30
2,4-Dinitrophenol	49		**25**	Q	30-130	**65**	Q	30
Pentachlorophenol	43		49		30-130	13		30
Phenol	72		91		30-130	23		30
2-Methylphenol	75		97		30-130	26		30
3-Methylphenol/4-Methylphenol	79		99		30-130	22		30
2,4,5-Trichlorophenol	74		90		30-130	20		30
Pyridine	45		57		30-130	24		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		84		30-130
Phenol-d6	73		94		30-130
Nitrobenzene-d5	66		83		30-130
2-Fluorobiphenyl	70		85		30-130
2,4,6-Tribromophenol	68		83		30-130
4-Terphenyl-d14	68		81		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/10/17 11:09
Analyst: MEO
Percent Solids: 89%

Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8011
Extraction Date: 05/09/17 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	96000		ug/kg	35800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	107		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/10/17 11:41
Analyst: MEO
Percent Solids: 92%

Date Collected: 05/09/17 13:40
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8011
Extraction Date: 05/09/17 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	485000		ug/kg	34500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	104		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/10/17 12:14
Analyst: MEO
Percent Solids: 88%

Date Collected: 05/09/17 13:50
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8011
Extraction Date: 05/09/17 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	381000		ug/kg	36600	--	1

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/10/17 12:46
Analyst: MEO
Percent Solids: 94%

Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8011
Extraction Date: 05/09/17 22:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	426000		ug/kg	33800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	106		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 05/09/17 16:15
Analyst: MEO

Extraction Method: EPA 8011
Extraction Date: 05/09/17 07:22

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-04 Batch: WG1001542-1					
TPH	ND		ug/kg	32000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-04 Batch: WG1001542-2								
TPH	128		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	77				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01 D
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/12/17 00:22
Analyst: HT
Percent Solids: 89%

Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 20:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	177	--	5	A
Aroclor 1221	ND		ug/kg	177	--	5	A
Aroclor 1232	ND		ug/kg	177	--	5	A
Aroclor 1242	ND		ug/kg	177	--	5	A
Aroclor 1248	ND		ug/kg	177	--	5	A
Aroclor 1254	2030		ug/kg	177	--	5	B
Aroclor 1260	915		ug/kg	177	--	5	A
Aroclor 1262	ND		ug/kg	177	--	5	A
Aroclor 1268	ND		ug/kg	177	--	5	A
PCBs, Total	2950		ug/kg	177	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/11/17 01:56
Analyst: HT
Percent Solids: 92%

Date Collected: 05/09/17 13:40
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 20:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	275		ug/kg	34.1	--	1	A
Aroclor 1260	132		ug/kg	34.1	--	1	B
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	407		ug/kg	34.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/11/17 02:08
Analyst: HT
Percent Solids: 88%

Date Collected: 05/09/17 13:50
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 20:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	--	1	A
Aroclor 1221	ND		ug/kg	37.0	--	1	A
Aroclor 1232	ND		ug/kg	37.0	--	1	A
Aroclor 1242	ND		ug/kg	37.0	--	1	A
Aroclor 1248	ND		ug/kg	37.0	--	1	A
Aroclor 1254	332		ug/kg	37.0	--	1	B
Aroclor 1260	152		ug/kg	37.0	--	1	B
Aroclor 1262	ND		ug/kg	37.0	--	1	A
Aroclor 1268	ND		ug/kg	37.0	--	1	A
PCBs, Total	484		ug/kg	37.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/11/17 02:20
Analyst: HT
Percent Solids: 94%

Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 20:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	--	1	A
Aroclor 1221	ND		ug/kg	33.4	--	1	A
Aroclor 1232	ND		ug/kg	33.4	--	1	A
Aroclor 1242	ND		ug/kg	33.4	--	1	A
Aroclor 1248	ND		ug/kg	33.4	--	1	A
Aroclor 1254	354		ug/kg	33.4	--	1	A
Aroclor 1260	216		ug/kg	33.4	--	1	B
Aroclor 1262	ND		ug/kg	33.4	--	1	A
Aroclor 1268	83.8		ug/kg	33.4	--	1	B
PCBs, Total	654		ug/kg	33.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 05/11/17 00:04
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/09/17 20:26
Cleanup Method: EPA 3665A
Cleanup Date: 05/10/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-04 Batch: WG1001821-1						
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	84		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1001821-2 WG1001821-3									
Aroclor 1016	65		70		40-140	7		30	A
Aroclor 1260	66		74		40-140	11		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		79		30-150	A
Decachlorobiphenyl	69		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		69		30-150	B
Decachlorobiphenyl	68		76		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/10/17 12:10
Analyst: KEG
Percent Solids: 89%

Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 19:26
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.79	--	1	A
Lindane	ND		ug/kg	2.93	--	1	A
Alpha-BHC	ND		ug/kg	3.66	--	1	A
Beta-BHC	ND		ug/kg	8.79	--	1	A
Heptachlor	ND		ug/kg	4.39	--	1	A
Aldrin	ND		ug/kg	8.79	--	1	A
Heptachlor epoxide	ND		ug/kg	16.5	--	1	A
Endrin	ND		ug/kg	3.66	--	1	A
Endrin ketone	ND		ug/kg	8.79	--	1	A
Dieldrin	69.2	P	ug/kg	5.49	--	1	A
4,4'-DDE	ND		ug/kg	8.79	--	1	A
4,4'-DDD	ND		ug/kg	8.79	--	1	A
4,4'-DDT	ND		ug/kg	16.5	--	1	A
Endosulfan I	ND		ug/kg	8.79	--	1	A
Endosulfan II	ND		ug/kg	8.79	--	1	A
Endosulfan sulfate	ND		ug/kg	3.66	--	1	B
Methoxychlor	75.8	P	ug/kg	16.5	--	1	A
Chlordane	ND		ug/kg	71.4	--	1	A
Hexachlorobenzene	ND		ug/kg	8.79	--	1	A
Toxaphene	ND		ug/kg	165	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/11/17 00:51
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/10/17 15:00

Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/09/17 20:08

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
Dinoseb	ND		ug/kg	37	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	120		30-150	A
DCAA	76		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/10/17 12:49
Analyst: KEG
Percent Solids: 92%

Date Collected: 05/09/17 13:40
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 19:26
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.61	--	1	A
Lindane	ND		ug/kg	2.87	--	1	A
Alpha-BHC	ND		ug/kg	3.59	--	1	A
Beta-BHC	ND		ug/kg	8.61	--	1	A
Heptachlor	ND		ug/kg	4.30	--	1	A
Aldrin	ND		ug/kg	8.61	--	1	A
Heptachlor epoxide	ND		ug/kg	16.1	--	1	A
Endrin	ND		ug/kg	3.59	--	1	A
Endrin ketone	ND		ug/kg	8.61	--	1	A
Dieldrin	ND		ug/kg	5.38	--	1	A
4,4'-DDE	ND		ug/kg	8.61	--	1	A
4,4'-DDD	ND		ug/kg	8.61	--	1	A
4,4'-DDT	ND		ug/kg	16.1	--	1	A
Endosulfan I	ND		ug/kg	8.61	--	1	A
Endosulfan II	12.0	P	ug/kg	8.61	--	1	B
Endosulfan sulfate	ND		ug/kg	3.59	--	1	A
Methoxychlor	ND		ug/kg	16.1	--	1	A
Chlordane	ND		ug/kg	70.0	--	1	A
Hexachlorobenzene	ND		ug/kg	8.61	--	1	A
Toxaphene	ND		ug/kg	161	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/11/17 01:11
Analyst: SL
Percent Solids: 92%
Methylation Date: 05/10/17 15:00

Date Collected: 05/09/17 13:40
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/09/17 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3500	--	1	A
MCPA	ND		ug/kg	3500	--	1	A
Dalapon	ND		ug/kg	35	--	1	A
Dicamba	ND		ug/kg	35	--	1	A
Dichloroprop	ND		ug/kg	35	--	1	A
2,4-D	ND		ug/kg	35	--	1	A
2,4-DB	ND		ug/kg	35	--	1	A
2,4,5-T	ND		ug/kg	35	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	35	--	1	A
Dinoseb	ND		ug/kg	35	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	74		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/10/17 13:02
Analyst: KEG
Percent Solids: 88%

Date Collected: 05/09/17 13:50
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 19:26
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.83	--	1	A
Lindane	ND		ug/kg	2.94	--	1	A
Alpha-BHC	ND		ug/kg	3.68	--	1	A
Beta-BHC	ND		ug/kg	8.83	--	1	A
Heptachlor	ND		ug/kg	4.41	--	1	A
Aldrin	ND		ug/kg	8.83	--	1	A
Heptachlor epoxide	ND		ug/kg	16.5	--	1	A
Endrin	ND		ug/kg	3.68	--	1	A
Endrin ketone	ND		ug/kg	8.83	--	1	A
Dieldrin	ND		ug/kg	5.52	--	1	A
4,4'-DDE	ND		ug/kg	8.83	--	1	A
4,4'-DDD	ND		ug/kg	8.83	--	1	A
4,4'-DDT	ND		ug/kg	16.5	--	1	A
Endosulfan I	ND		ug/kg	8.83	--	1	A
Endosulfan II	ND		ug/kg	8.83	--	1	A
Endosulfan sulfate	ND		ug/kg	3.68	--	1	A
Methoxychlor	ND		ug/kg	16.5	--	1	A
Chlordane	ND		ug/kg	71.7	--	1	A
Hexachlorobenzene	ND		ug/kg	8.83	--	1	A
Toxaphene	ND		ug/kg	165	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	111		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/11/17 01:30
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/10/17 15:00

Date Collected: 05/09/17 13:50
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/09/17 20:08

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	75		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/10/17 13:15
Analyst: KEG
Percent Solids: 94%

Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/09/17 19:26
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.16	--	1	A
Lindane	ND		ug/kg	2.72	--	1	A
Alpha-BHC	ND		ug/kg	3.40	--	1	A
Beta-BHC	ND		ug/kg	8.16	--	1	A
Heptachlor	ND		ug/kg	4.08	--	1	A
Aldrin	ND		ug/kg	8.16	--	1	A
Heptachlor epoxide	ND	PI	ug/kg	15.3	--	1	A
Endrin	ND		ug/kg	3.40	--	1	A
Endrin ketone	ND		ug/kg	8.16	--	1	A
Dieldrin	ND		ug/kg	5.10	--	1	A
4,4'-DDE	ND		ug/kg	8.16	--	1	A
4,4'-DDD	ND		ug/kg	8.16	--	1	A
4,4'-DDT	ND		ug/kg	15.3	--	1	A
Endosulfan I	ND		ug/kg	8.16	--	1	A
Endosulfan II	9.35	PI	ug/kg	8.16	--	1	A
Endosulfan sulfate	ND		ug/kg	3.40	--	1	A
Methoxychlor	ND		ug/kg	15.3	--	1	A
Chlordane	ND		ug/kg	66.3	--	1	A
Hexachlorobenzene	ND		ug/kg	8.16	--	1	A
Toxaphene	ND		ug/kg	153	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/11/17 01:50
Analyst: SL
Percent Solids: 94%
Methylation Date: 05/10/17 15:00

Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/09/17 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3400	--	1	A
MCPA	ND		ug/kg	3400	--	1	A
Dalapon	ND		ug/kg	34	--	1	A
Dicamba	ND		ug/kg	34	--	1	A
Dichloroprop	ND		ug/kg	34	--	1	A
2,4-D	ND		ug/kg	34	--	1	A
2,4-DB	ND		ug/kg	34	--	1	A
2,4,5-T	ND		ug/kg	34	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	34	--	1	A
Dinoseb	ND		ug/kg	34	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	76		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 05/10/17 10:14
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/09/17 19:26
Cleanup Method: EPA 3620B
Cleanup Date: 05/10/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-04 Batch: WG1001812-1						
Delta-BHC	ND		ug/kg	7.58	--	A
Lindane	ND		ug/kg	2.52	--	A
Alpha-BHC	ND		ug/kg	3.16	--	A
Beta-BHC	ND		ug/kg	7.58	--	A
Aldrin	ND		ug/kg	7.58	--	A
Heptachlor epoxide	ND		ug/kg	14.2	--	A
Endrin	ND		ug/kg	3.16	--	A
Endrin ketone	ND		ug/kg	7.58	--	A
Dieldrin	ND		ug/kg	4.73	--	A
4,4'-DDE	ND		ug/kg	7.58	--	A
4,4'-DDD	ND		ug/kg	7.58	--	A
Endosulfan I	ND		ug/kg	7.58	--	A
Endosulfan II	ND		ug/kg	7.58	--	A
Endosulfan sulfate	ND		ug/kg	3.16	--	A
Methoxychlor	ND		ug/kg	14.2	--	A
Chlordane	ND		ug/kg	61.6	--	A
Hexachlorobenzene	ND		ug/kg	7.58	--	A
Toxaphene	ND		ug/kg	142	--	A
Heptachlor	ND		ug/kg	3.79	--	B
4,4'-DDT	ND		ug/kg	14.2	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 05/11/17 11:59
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/09/17 20:08

Methylation Date: 05/10/17 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-04 Batch: WG1001820-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	65		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1001812-2 WG1001812-3									
Delta-BHC	81		92		40-140	13		30	A
Lindane	80		91		40-140	13		30	A
Alpha-BHC	83		94		40-140	12		30	A
Beta-BHC	77		88		40-140	13		30	A
Heptachlor	87		99		40-140	13		30	A
Aldrin	80		92		40-140	14		30	A
Heptachlor epoxide	81		92		40-140	13		30	A
Endrin	84		97		40-140	14		30	A
Endrin ketone	79		94		40-140	17		30	A
Dieldrin	88		101		40-140	14		30	A
4,4'-DDE	85		97		40-140	13		30	A
4,4'-DDD	82		94		40-140	14		30	A
4,4'-DDT	105		123		40-140	16		30	A
Endosulfan I	78		88		40-140	12		30	A
Endosulfan II	74		86		40-140	15		30	A
Endosulfan sulfate	77		91		40-140	17		30	A
Methoxychlor	100		117		40-140	16		30	A
Hexachlorobenzene	86		98		40-140	13		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-04 Batch: WG1001812-2 WG1001812-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		81		30-150	B
Decachlorobiphenyl	77		92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		77		30-150	A
Decachlorobiphenyl	72		87		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1001812-4 WG1001812-5									
Toxaphene	99		96		40-140	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		80		30-150	B
Decachlorobiphenyl	95		85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		78		30-150	A
Decachlorobiphenyl	93		75		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

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: WG1001820-2 WG1001820-3									
MCPP	**146**	Q	122		40-140	18		30	A
MCPA	83		84		40-140	1		30	A
Dalapon	70		62		40-140	12		30	A
Dicamba	79		80		40-140	1		30	A
Dichloroprop	108		128		40-140	17		30	A
2,4-D	103		85		40-140	19		30	A
2,4-DB	100		96		40-140	4		30	A
2,4,5-T	79		79		40-140	0		30	A
2,4,5-TP (Silvex)	78		75		40-140	4		30	A
Dinoseb	**10**	Q	**4**	Q	40-140	**87**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	96		99		30-150	A
DCAA	71		72		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 89%
Date Collected: 05/09/17 13:30
Date Received: 05/09/17
Field Prep: Not Specified

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	2.1	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Arsenic, Total	4.5		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Barium, Total	44		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.21	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Chromium, Total	7.4		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Lead, Total	75		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Mercury, Total	0.387		mg/kg	0.074	--	1	05/10/17 08:45	05/10/17 13:07	EPA 7471B	97,7471B	BV
Nickel, Total	5.5		mg/kg	1.1	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Vanadium, Total	8.9		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS
Zinc, Total	21		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:24	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 92%

Date Collected: 05/09/17 13:40
Date Received: 05/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	18		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Arsenic, Total	140		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Barium, Total	91		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Beryllium, Total	0.61		mg/kg	0.21	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Cadmium, Total	1.8		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Chromium, Total	35		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Lead, Total	1200		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Mercury, Total	4.10		mg/kg	0.348	--	5	05/10/17 08:45	05/10/17 13:30	EPA 7471B	97,7471B	BV
Nickel, Total	23		mg/kg	1.0	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Selenium, Total	21		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Silver, Total	5.1		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Vanadium, Total	60		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS
Zinc, Total	290		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:29	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 88%

Date Collected: 05/09/17 13:50
Date Received: 05/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	3.5		mg/kg	2.2	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Arsenic, Total	38		mg/kg	0.44	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Barium, Total	51		mg/kg	0.44	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Beryllium, Total	0.27		mg/kg	0.22	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Cadmium, Total	1.4		mg/kg	0.44	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Chromium, Total	13		mg/kg	0.44	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Lead, Total	240		mg/kg	2.2	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Mercury, Total	0.292		mg/kg	0.073	--	1	05/10/17 08:45	05/10/17 13:15	EPA 7471B	97,7471B	BV
Nickel, Total	10		mg/kg	1.1	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Selenium, Total	4.0		mg/kg	2.2	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Silver, Total	0.62		mg/kg	0.44	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.2	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Vanadium, Total	58		mg/kg	0.44	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS
Zinc, Total	300		mg/kg	2.2	--	1	05/10/17 10:10	05/10/17 14:34	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 94%

Date Collected: 05/09/17 14:00
Date Received: 05/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	52		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Arsenic, Total	170		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Barium, Total	82		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.21	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Cadmium, Total	2.3		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Chromium, Total	14		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Lead, Total	2100		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Mercury, Total	3.95		mg/kg	0.350	--	5	05/10/17 08:45	05/10/17 13:35	EPA 7471B	97,7471B	BV
Nickel, Total	12		mg/kg	1.0	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Selenium, Total	10		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Silver, Total	9.2		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Vanadium, Total	42		mg/kg	0.42	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS
Zinc, Total	860		mg/kg	2.1	--	1	05/10/17 10:10	05/10/17 14:52	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1714964
Project Number: 171521.52
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-05
Client ID: SHORELINE STOCKPILE#6A/B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 14:05
Date Received: 05/09/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/09/17 22:19

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	12		mg/l	0.50	--	1	05/11/17 12:34	05/11/17 18:49	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1714964
Project Number: 171521.52
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-06
Client ID: SHORELINE STOCKPILE#6B/C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 14:10
Date Received: 05/09/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/09/17 22:19

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	6.5		mg/l	0.50	--	1	05/11/17 12:34	05/11/17 19:09	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

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: WG1001923-1										
Mercury, Total	ND		mg/kg	0.083	--	1	05/10/17 08:45	05/10/17 12:46	97,7471B	BV

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: WG1001998-1										
Antimony, Total	ND		mg/kg	2.0	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Barium, Total	ND		mg/kg	0.40	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Chromium, Total	ND		mg/kg	0.40	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Lead, Total	ND		mg/kg	2.0	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Nickel, Total	ND		mg/kg	1.0	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Selenium, Total	ND		mg/kg	2.0	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Silver, Total	ND		mg/kg	0.40	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Thallium, Total	ND		mg/kg	2.0	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS
Zinc, Total	ND		mg/kg	2.0	--	1	05/10/17 10:10	05/10/17 13:51	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

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): 05-06 Batch: WG1002479-1										
Lead, TCLP	ND		mg/l	0.50	--	1	05/11/17 12:34	05/11/17 17:00	1,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/09/17 22:19

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1001923-2 WG1001923-3 SRM Lot Number: D091-540								
Mercury, Total	96		99		72-128	3		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1001998-2 WG1001998-3 SRM Lot Number: D091-540								
Antimony, Total	179		171		1-200	5		30
Arsenic, Total	110		103		80-121	7		30
Barium, Total	100		100		84-117	0		30
Beryllium, Total	102		99		83-117	3		30
Cadmium, Total	105		104		83-117	1		30
Chromium, Total	105		105		80-119	0		30
Lead, Total	103		103		82-118	0		30
Nickel, Total	108		108		83-117	0		30
Selenium, Total	101		96		79-121	5		30
Silver, Total	109		109		76-124	0		30
Thallium, Total	113		106		80-121	6		30
Vanadium, Total	104		104		78-122	0		30
Zinc, Total	103		103		82-118	0		30
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 05-06 Batch: WG1002479-2								
Lead, TCLP	100		-		75-125	-		20

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 05/09/17 13:30
Date Received: 05/09/17
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	05/11/17 03:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 13:40
Date Received: 05/09/17
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	05/11/17 03:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 13:50
Date Received: 05/09/17
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	05/11/17 03:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 14:00
Date Received: 05/09/17
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	05/11/17 03:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-01
Client ID: MIXED PILE #1 (SW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 13:30
Date Received: 05/09/17
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	1400		umhos/cm	10	--	1	-	05/10/17 05:30	1,9050A	JT
Solids, Total	89.3		%	0.100	NA	1	-	05/10/17 10:26	121,2540G	RI
pH (H)	7.3		SU	-	NA	1	-	05/10/17 03:41	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	05/11/17 10:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:14	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-02
Client ID: MIXED PILE #1 (NW)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 13:40
Date Received: 05/09/17
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	470		umhos/cm	10	--	1	-	05/10/17 05:30	1,9050A	JT
Solids, Total	91.8		%	0.100	NA	1	-	05/10/17 10:26	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	05/10/17 03:41	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	05/11/17 10:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:14	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-03
Client ID: MIXED PILE #1 (NE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/09/17 13:50
Date Received: 05/09/17
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	460		umhos/cm	10	--	1	-	05/10/17 05:30	1,9050A	JT
Solids, Total	87.6		%	0.100	NA	1	-	05/10/17 10:26	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	05/10/17 03:41	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	05/11/17 10:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:15	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

SAMPLE RESULTS

Lab ID: L1714964-04
Client ID: MIXED PILE #1 (SE)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 05/09/17 14:00
Date Received: 05/09/17
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	440		umhos/cm	10	--	1	-	05/10/17 05:30	1,9050A	JT
Solids, Total	93.7		%	0.100	NA	1	-	05/10/17 10:26	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	05/10/17 03:41	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	05/11/17 10:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:22	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:15	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

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: WG1002179-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:19	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1002180-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	05/10/17 18:45	05/10/17 21:11	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1714964

Report Date: 05/12/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1001846-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1001847-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1002179-2								
Cyanide, Reactive	50		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1002180-2								
Sulfide, Reactive	92		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1002595-1								
Flash Point	100		-		96-104	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab (SW) Associated sample(s): 01-04 QC Batch ID: WG1001846-2 QC Sample: L1714964-01 Client ID: MIXED PILE #1						
pH (H)	7.3	7.3	SU	0		5
General Chemistry - Westborough Lab (SW) Associated sample(s): 01-04 QC Batch ID: WG1001847-2 QC Sample: L1714964-01 Client ID: MIXED PILE #1						
Specific Conductance @ 25 C	1400	1000	umhos/cm	**33**	Q	20
General Chemistry - Westborough Lab (SW) Associated sample(s): 01-04 QC Batch ID: WG1002013-1 QC Sample: L1714964-01 Client ID: MIXED PILE #1						
Solids, Total	89.3	89.1	%	0		20
General Chemistry - Westborough Lab (SE) Associated sample(s): 01-04 QC Batch ID: WG1002179-3 QC Sample: L1714964-04 Client ID: MIXED PILE #1						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab (SE) Associated sample(s): 01-04 QC Batch ID: WG1002180-3 QC Sample: L1714964-04 Client ID: MIXED PILE #1						
Sulfide, Reactive	ND	ND	mg/kg	NC		40

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 05/09/2017 20:54

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1714964-01A	Vial MeOH preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-01B	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-01C	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-01D	Vial Large Septa unpreserved (4o	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(2)
L1714964-01E	Glass 250ml/8oz unpreserved	A	N/A	4.8	Y	Absent	IGNIT-1030(14),REACTS(14),MCP-8270-10(14),FLASH(),PH-9045(1),MCP(),REACTCN(14),COND-9050(28)
L1714964-01F	Glass 500ml/16oz unpreserved	A	N/A	4.8	Y	Absent	MCP-8082-10(365),MCP-8081-10(14),MCP-8151-10(14),TS(7),TPH-DRO-D(14)
L1714964-01T	Metals Only - Glass 60mL/2oz unp	A	N/A	4.8	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)
L1714964-02A	Vial MeOH preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-02B	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-02C	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-02D	Vial Large Septa unpreserved (4o	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(2)
L1714964-02E	Glass 250ml/8oz unpreserved	A	N/A	4.8	Y	Absent	IGNIT-1030(14),REACTS(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),COND-9050(28)
L1714964-02F	Glass 500ml/16oz unpreserved	A	N/A	4.8	Y	Absent	MCP-8082-10(365),MCP-8081-10(14),MCP-8151-10(14),TS(7),TPH-DRO-D(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1714964-02T	Metals Only - Glass 60mL/2oz unp	A	N/A	4.8	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)
L1714964-03A	Vial MeOH preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-03B	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-03C	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-03D	Vial Large Septa unpreserved (4o	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(2)
L1714964-03E	Glass 250ml/8oz unpreserved	A	N/A	4.8	Y	Absent	IGNIT-1030(14),REACTS(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),COND-9050(28)
L1714964-03F	Glass 500ml/16oz unpreserved	A	N/A	4.8	Y	Absent	MCP-8082-10(365),MCP-8081-10(14),MCP-8151-10(14),TS(7),TPH-DRO-D(14)
L1714964-03T	Metals Only - Glass 60mL/2oz unp	A	N/A	4.8	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)
L1714964-04A	Vial MeOH preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-04B	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-04C	Vial water preserved	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(14)
L1714964-04D	Vial Large Septa unpreserved (4o	A	N/A	4.8	Y	Absent	MCP-8260HLW-10(2)
L1714964-04E	Glass 250ml/8oz unpreserved	A	N/A	4.8	Y	Absent	IGNIT-1030(14),REACTS(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),COND-9050(28)
L1714964-04F	Glass 500ml/16oz unpreserved	A	N/A	4.8	Y	Absent	MCP-8082-10(365),MCP-8081-10(14),MCP-8151-10(14),TS(7),TPH-DRO-D(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1714964
Report Date: 05/12/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1714964-04T	Metals Only - Glass 60mL/2oz unp	A	N/A	4.8	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)
L1714964-05A	Glass 500ml/16oz unpreserved	A	N/A	4.8	Y	Absent	-
L1714964-05X	Plastic 120ml HNO3 preserved Ext	A	<2	4.8	Y	Absent	PB-CI(180)
L1714964-05X9	Tumble Vessel	A	N/A	4.8	Y	Absent	-
L1714964-06A	Glass 500ml/16oz unpreserved	A	N/A	4.8	Y	Absent	-
L1714964-06X	Plastic 120ml HNO3 preserved Ext	A	<2	4.8	Y	Absent	PB-CI(180)
L1714964-06X9	Tumble Vessel	A	N/A	4.8	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1714964
Project Number:	171521.52	**Report Date:**	05/12/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1714964
Project Number:	171521.52	**Report Date:**	05/12/17

Data Qualifiers

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
Project Number: 171521.52
Lab Number: L1714964
Report Date: 05/12/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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 DD OF

Date Rec'd in Lab: 5/9/17

ALPHA Job #: L1714964

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:

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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 Lead					Sample Specific Comments	TOTAL # BOTTLES
L1714964-01	Mixed Pile #1 (SW)	5/9/17	1330	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
2	Mixed Pile #1 (NW)	5/9/17	1340	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
3	Mixed Pile #1 (NE)	5/9/17	1350	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
4	Mixed Pile #1 (SE)	5/9/17	1400	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
5	Shoreline Stockpile#6A/B	5/9/17	1405	Soil	DRS	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐		
6	Shoreline Stockpile#6B/C	5/9/17	1410	Soil	DRS	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
Container Type						-	-	-	-	-	-	-	-	-	-	-	-		
Preservative						-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/9/17	[signature] AAC	15:25 5-9-17
[signature] AAC	5-5-17 10:20	[signature]	5/9/17 16:20

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714964
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1002370-10	**Lab File ID**	: V11170511A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 05/11/17 08:29

Client Sample No.	Lab Sample ID	Analysis Date
WG1002370-8LCS	WG1002370-8	05/11/17 06:48
WG1002370-9LCSD	WG1002370-9	05/11/17 07:13
MIXED PILE #1 (NW)	L1714964-02	05/11/17 13:36
MIXED PILE #1 (NE)	L1714964-03	05/11/17 14:01
MIXED PILE #1 (SE)	L1714964-04	05/11/17 14:27

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714964
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1002457-5	**Lab File ID**	: V11170511A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 05/11/17 08:29

Client Sample No.	Lab Sample ID	Analysis Date
WG1002457-3LCS	WG1002457-3	05/11/17 06:48
WG1002457-4LCSD	WG1002457-4	05/11/17 07:13
MIXED PILE #1 (SW)	L1714964-01	05/11/17 12:19

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714964	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 05/11/17 06:48	
Lab File ID	: V11170511A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1002457-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	70	0
Dichlorodifluoromethane	0.322	0.343	-	-6.5	20	74	0
Chloromethane	0.417	0.429	-	-2.9	20	74	0
Vinyl chloride	0.349	0.393	-	-12.6	20	79	0
Bromomethane	20	24.308	-	-21.5*	20	78	0
Chloroethane	0.2	0.232	-	-16	20	78	0
Trichlorofluoromethane	0.406	0.444	-	-9.4	20	76	0
Ethyl ether	0.164	0.16	-	2.4	20	71	0
1,1-Dichloroethene	0.232	0.248	-	-6.9	20	76	0
Carbon disulfide	20	18.729	-	6.4	20	65	0
Freon-113	0.209	0.229	-	-9.6	20	76	0
Acrolein	20	17.705	-	11.5	20	67	0
Methylene chloride	0.307	0.3	-	2.3	20	72	0
Acetone	20	20.209	-	-1	20	68	0
trans-1,2-Dichloroethene	0.272	0.277	-	-1.8	20	73	0
Methyl acetate	0.193	0.199	-	-3.1	20	74	0
Methyl tert-butyl ether	0.851	0.822	-	3.4	20	70	0
tert-Butyl alcohol	0.031	0.03	-	3.2	20	66	0
Diisopropyl ether	1.164	1.139	-	2.1	20	70	0
1,1-Dichloroethane	0.588	0.603	-	-2.6	20	73	0
Halothane	0.184	0.194	-	-5.4	20	74	0
Acrylonitrile	0.098	0.1	-	-2	20	71	0
Ethyl tert-butyl ether	1.064	1.018	-	4.3	20	69	0
Vinyl acetate	0.773	0.748	-	3.2	20	69	-.01
cis-1,2-Dichloroethene	0.308	0.31	-	-0.6	20	72	0
2,2-Dichloropropane	0.454	0.473	-	-4.2	20	74	0
Bromochloromethane	0.131	0.135	-	-3.1	20	71	0
Cyclohexane	0.532	0.552	-	-3.8	20	73	0
Chloroform	0.529	0.532	-	-0.6	20	72	0
Ethyl acetate	0.303	0.302	-	0.3	20	72	-.01
Carbon tetrachloride	0.369	0.373	-	-1.1	20	72	0
Tetrahydrofuran	0.105	0.11	-	-4.8	20	72	-.01
Dibromofluoromethane	0.243	0.246	-	-1.2	20	71	-.01
1,1,1-Trichloroethane	0.449	0.461	-	-2.7	20	73	0
2-Butanone	0.121	0.129	-	-6.6	20	72	-.01
1,1-Dichloropropene	0.386	0.402	-	-4.1	20	73	0
Benzene	1.185	1.213	-	-2.4	20	73	0
tert-Amyl methyl ether	0.823	0.793	-	3.6	20	69	0
1,2-Dichloroethane-d4	0.291	0.292	-	-0.3	20	71	0
1,2-Dichloroethane	0.445	0.436	-	2	20	70	0
Methyl cyclohexane	0.426	0.447	-	-4.9	20	73	0
Trichloroethene	0.294	0.301	-	-2.4	20	74	0
Dibromomethane	0.17	0.17	-	0	20	72	0
1,2-Dichloropropane	0.338	0.337	-	0.3	20	72	0
2-Chloroethyl vinyl ether	0.156	0.157	-	-0.6	20	70	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714964	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 05/11/17 06:48	
Lab File ID	: V11170511A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1002457-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.403	-	3.8	20	69	0
1,4-Dioxane	0.0025	0.00265	-	-6	20	77	0
cis-1,3-Dichloropropene	0.504	0.494	-	2	20	71	0
Chlorobenzene-d5	1	1	-	0	20	74	0
Toluene-d8	1.317	1.285	-	2.4	20	72	0
Toluene	0.945	0.89	-	5.8	20	72	0
4-Methyl-2-pentanone	0.134	0.122	-	9	20	66	0
Tetrachloroethene	0.369	0.359	-	2.7	20	72	0
trans-1,3-Dichloropropene	0.573	0.527	-	8	20	71	0
Ethyl methacrylate	0.46	0.402	-	12.6	20	67	0
1,1,2-Trichloroethane	0.272	0.258	-	5.1	20	71	0
Chlorodibromomethane	0.368	0.332	-	9.8	20	69	0
1,3-Dichloropropane	0.572	0.544	-	4.9	20	71	0
1,2-Dibromoethane	0.299	0.279	-	6.7	20	70	0
2-Hexanone	0.251	0.218	-	13.1	20	66	0
Chlorobenzene	1.019	0.958	-	6	20	71	0
Ethylbenzene	1.803	1.708	-	5.3	20	71	0
1,1,1,2-Tetrachloroethane	0.36	0.34	-	5.6	20	71	0
p/m Xylene	0.665	0.644	-	3.2	20	72	0
o Xylene	0.64	0.607	-	5.2	20	72	0
Styrene	1.085	1.025	-	5.5	20	71	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	77	0
Bromoform	0.436	0.377	-	13.5	20	70	0
Isopropylbenzene	3.219	2.915	-	9.4	20	72	0
4-Bromofluorobenzene	0.989	0.925	-	6.5	20	73	0
Bromobenzene	0.796	0.701	-	11.9	20	71	0
n-Propylbenzene	4.022	3.688	-	8.3	20	73	0
1,4-Dichlorobutane	1.308	1.159	-	11.4	20	71	0
1,1,2,2-Tetrachloroethane	0.783	0.704	-	10.1	20	71	0
4-Ethyltoluene	3.218	2.913	-	9.5	20	71	0
2-Chlorotoluene	2.804	2.536	-	9.6	20	72	0
1,3,5-Trimethylbenzene	2.77	2.532	-	8.6	20	72	0
1,2,3-Trichloropropane	0.639	0.579	-	9.4	20	72	0
trans-1,4-Dichloro-2-buten	0.258	0.234	-	9.3	20	70	0
4-Chlorotoluene	2.539	2.269	-	10.6	20	72	0
tert-Butylbenzene	2.25	2.056	-	8.6	20	72	0
1,2,4-Trimethylbenzene	2.819	2.539	-	9.9	20	71	0
sec-Butylbenzene	3.481	3.257	-	6.4	20	73	0
p-Isopropyltoluene	2.911	2.681	-	7.9	20	72	0
1,3-Dichlorobenzene	1.577	1.416	-	10.2	20	73	0
1,4-Dichlorobenzene	1.611	1.413	-	12.3	20	71	0
p-Diethylbenzene	1.735	1.579	-	9	20	72	0
n-Butylbenzene	2.967	2.823	-	4.9	20	74	0
1,2-Dichlorobenzene	1.481	1.297	-	12.4	20	71	0
1,2,4,5-Tetramethylbenzene	2.795	2.406	-	13.9	20	69	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714964	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 05/11/17 06:48	
Lab File ID	: V11170511A01	**Init. Calib. Date(s)**	: 05/01/17	05/01/17
Sample No	: WG1002457-2	**Init. Calib. Times**	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.113	0.09	-	20.4*	20	65	0
1,3,5-Trichlorobenzene	1.183	1.043	-	11.8	20	72	0
Hexachlorobutadiene	0.57	0.503	-	11.8	20	70	0
1,2,4-Trichlorobenzene	1.086	0.923	-	15	20	69	0
Naphthalene	2.33	1.941	-	16.7	20	67	0
1,2,3-Trichlorobenzene	0.992	0.834	-	15.9	20	68	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714964	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 05/11/17 06:48	
Lab File ID	: V11170511A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1002370-7	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	70	0
Dichlorodifluoromethane	0.322	0.343	-	-6.5	20	74	0
Chloromethane	0.417	0.429	-	-2.9	20	74	0
Vinyl chloride	0.349	0.393	-	-12.6	20	79	0
Bromomethane	20	24.308	-	-21.5*	20	78	0
Chloroethane	0.2	0.232	-	-16	20	78	0
Trichlorofluoromethane	0.406	0.444	-	-9.4	20	76	0
Ethyl ether	0.164	0.16	-	2.4	20	71	0
1,1-Dichloroethene	0.232	0.248	-	-6.9	20	76	0
Carbon disulfide	20	18.729	-	6.4	20	65	0
Freon-113	0.209	0.229	-	-9.6	20	76	0
Acrolein	20	17.705	-	11.5	20	67	0
Methylene chloride	0.307	0.3	-	2.3	20	72	0
Acetone	20	20.209	-	-1	20	68	0
trans-1,2-Dichloroethene	0.272	0.277	-	-1.8	20	73	0
Methyl acetate	0.193	0.199	-	-3.1	20	74	0
Methyl tert-butyl ether	0.851	0.822	-	3.4	20	70	0
tert-Butyl alcohol	0.031	0.03	-	3.2	20	66	0
Diisopropyl ether	1.164	1.139	-	2.1	20	70	0
1,1-Dichloroethane	0.588	0.603	-	-2.6	20	73	0
Halothane	0.184	0.194	-	-5.4	20	74	0
Acrylonitrile	0.098	0.1	-	-2	20	71	0
Ethyl tert-butyl ether	1.064	1.018	-	4.3	20	69	0
Vinyl acetate	0.773	0.748	-	3.2	20	69	-.01
cis-1,2-Dichloroethene	0.308	0.31	-	-0.6	20	72	0
2,2-Dichloropropane	0.454	0.473	-	-4.2	20	74	0
Bromochloromethane	0.131	0.135	-	-3.1	20	71	0
Cyclohexane	0.532	0.552	-	-3.8	20	73	0
Chloroform	0.529	0.532	-	-0.6	20	72	0
Ethyl acetate	0.303	0.302	-	0.3	20	72	-.01
Carbon tetrachloride	0.369	0.373	-	-1.1	20	72	0
Tetrahydrofuran	0.105	0.11	-	-4.8	20	72	-.01
Dibromofluoromethane	0.243	0.246	-	-1.2	20	71	-.01
1,1,1-Trichloroethane	0.449	0.461	-	-2.7	20	73	0
2-Butanone	0.121	0.129	-	-6.6	20	72	-.01
1,1-Dichloropropene	0.386	0.402	-	-4.1	20	73	0
Benzene	1.185	1.213	-	-2.4	20	73	0
tert-Amyl methyl ether	0.823	0.793	-	3.6	20	69	0
1,2-Dichloroethane-d4	0.291	0.292	-	-0.3	20	71	0
1,2-Dichloroethane	0.445	0.436	-	2	20	70	0
Methyl cyclohexane	0.426	0.447	-	-4.9	20	73	0
Trichloroethene	0.294	0.301	-	-2.4	20	74	0
Dibromomethane	0.17	0.17	-	0	20	72	0
1,2-Dichloropropane	0.338	0.337	-	0.3	20	72	0
2-Chloroethyl vinyl ether	0.156	0.157	-	-0.6	20	70	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1714964	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 05/11/17 06:48	
Lab File ID	: V11170511A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1002370-7	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.403	-	3.8	20	69	0
1,4-Dioxane	0.0025	0.00265	-	-6	20	77	0
cis-1,3-Dichloropropene	0.504	0.494	-	2	20	71	0
Chlorobenzene-d5	1	1	-	0	20	74	0
Toluene-d8	1.317	1.285	-	2.4	20	72	0
Toluene	0.945	0.89	-	5.8	20	72	0
4-Methyl-2-pentanone	0.134	0.122	-	9	20	66	0
Tetrachloroethene	0.369	0.359	-	2.7	20	72	0
trans-1,3-Dichloropropene	0.573	0.527	-	8	20	71	0
Ethyl methacrylate	0.46	0.402	-	12.6	20	67	0
1,1,2-Trichloroethane	0.272	0.258	-	5.1	20	71	0
Chlorodibromomethane	0.368	0.332	-	9.8	20	69	0
1,3-Dichloropropane	0.572	0.544	-	4.9	20	71	0
1,2-Dibromoethane	0.299	0.279	-	6.7	20	70	0
2-Hexanone	0.251	0.218	-	13.1	20	66	0
Chlorobenzene	1.019	0.958	-	6	20	71	0
Ethylbenzene	1.803	1.708	-	5.3	20	71	0
1,1,1,2-Tetrachloroethane	0.36	0.34	-	5.6	20	71	0
p/m Xylene	0.665	0.644	-	3.2	20	72	0
o Xylene	0.64	0.607	-	5.2	20	72	0
Styrene	1.085	1.025	-	5.5	20	71	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	77	0
Bromoform	0.436	0.377	-	13.5	20	70	0
Isopropylbenzene	3.219	2.915	-	9.4	20	72	0
4-Bromofluorobenzene	0.989	0.925	-	6.5	20	73	0
Bromobenzene	0.796	0.701	-	11.9	20	71	0
n-Propylbenzene	4.022	3.688	-	8.3	20	73	0
1,4-Dichlorobutane	1.308	1.159	-	11.4	20	71	0
1,1,2,2-Tetrachloroethane	0.783	0.704	-	10.1	20	71	0
4-Ethyltoluene	3.218	2.913	-	9.5	20	71	0
2-Chlorotoluene	2.804	2.536	-	9.6	20	72	0
1,3,5-Trimethylbenzene	2.77	2.532	-	8.6	20	72	0
1,2,3-Trichloropropane	0.639	0.579	-	9.4	20	72	0
trans-1,4-Dichloro-2-buten	0.258	0.234	-	9.3	20	70	0
4-Chlorotoluene	2.539	2.269	-	10.6	20	72	0
tert-Butylbenzene	2.25	2.056	-	8.6	20	72	0
1,2,4-Trimethylbenzene	2.819	2.539	-	9.9	20	71	0
sec-Butylbenzene	3.481	3.257	-	6.4	20	73	0
p-Isopropyltoluene	2.911	2.681	-	7.9	20	72	0
1,3-Dichlorobenzene	1.577	1.416	-	10.2	20	73	0
1,4-Dichlorobenzene	1.611	1.413	-	12.3	20	71	0
p-Diethylbenzene	1.735	1.579	-	9	20	72	0
n-Butylbenzene	2.967	2.823	-	4.9	20	74	0
1,2-Dichlorobenzene	1.481	1.297	-	12.4	20	71	0
1,2,4,5-Tetramethylbenzene	2.795	2.406	-	13.9	20	69	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1714964	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 05/11/17 06:48	
Lab File ID	: V11170511A01	**Init. Calib. Date(s)**	: 05/01/17	05/01/17
Sample No	: WG1002370-7	**Init. Calib. Times**	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.113	0.09	-	20.4*	20	65	0
1,3,5-Trichlorobenzene	1.183	1.043	-	11.8	20	72	0
Hexachlorobutadiene	0.57	0.503	-	11.8	20	70	0
1,2,4-Trichlorobenzene	1.086	0.923	-	15	20	69	0
Naphthalene	2.33	1.941	-	16.7	20	67	0
1,2,3-Trichlorobenzene	0.992	0.834	-	15.9	20	68	0

* Value outside of QC limits.

I:\Pest15\170510A\15170510a-01.d

Data File Name	**15170510a-01.d**
Data File Path	**I:\Pest15\170510A**
Operator	**PEST15:keg**
Date Acquired	**5/10/2017 6:09**
Acq. Method File	**PEST.M**
Sample Name	**pem15170510a01,42ee,,deg 7**
Instrument Name	**Pest 15**

Name	Ret Time	Response	
Endrin	4.59	521508484.5	% Breakdown
Endrin Aldehyde	0.00	0	
Endrin Ketone	5.56	6982319.846	1.32%
4,4'-DDT	4.86	752796758.8	% Breakdown
4,4'-DDE	4.19	1377522.545	
4,4'-DDD	4.66	4312728.352	0.75%
Endrin #2	5.12	219385415.6	% Breakdown
Endrin Aldehyde #2	5.51	1355044.517	
Endrin Ketone #2	6.06	2134246.13	1.57%
4,4'-DDT #2	5.41	402513337.8	% Breakdown
4,4'-DDE #2	4.76	1030672.404	
4,4'-DDD #2	5.19	1928132.71	0.73%

l1714964-01,02,03,04
wg1001812-1,2,3,4,5

ANALYTICAL REPORT

Lab Number:	L1715741
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:	05/19/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1715741
Report Date: 05/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1715741-01	SHORELINE STOCKPILE #8 (EAST)	SOIL	1 HORIZON WAY, EVERETT, MA	05/15/17 11:00	05/15/17
L1715741-02	SHORELINE STOCKPILE #8 (WEST)	SOIL	1 HORIZON WAY, EVERETT, MA	05/15/17 11:15	05/15/17

Project Name: WYNN EVERETT **Lab Number:** L1715741

Project Number: 171521.52 **Report Date:** 05/19/17

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: L1715741
Report Date: 05/19/17

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:** L1715741
Project Number: 171521.52 **Report Date:** 05/19/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The WG1004807-5 Method Blank, associated with L1715741-02, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The initial calibration, associated with L1715741-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0919) and 1,4-dioxane (0.0024), as well as the average response factor for acetone and 1,4-dioxane. The initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (139%), but within overall method criteria.

The continuing calibration standards, associated with L1715741-01 and -02, 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.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG1004136-2/-3 LCS/LCSD recoveries, associated with L1715741-01 and -02, are below the acceptance criteria for dinoseb (6%/4%); however, the recoveries are due to a noted method interference

Project Name:	WYNN EVERETT	**Lab Number:**	L1715741
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Case Narrative (continued)

caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 05/19/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/19/17 09:49
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.4	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.91	--	1
1,2-Dichloropropane	ND		ug/kg	3.2	--	1
Dibromochloromethane	ND		ug/kg	0.91	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	--	1
Tetrachloroethene	ND		ug/kg	0.91	--	1
Chlorobenzene	ND		ug/kg	0.91	--	1
Trichlorofluoromethane	ND		ug/kg	3.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.91	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	--	1
Bromodichloromethane	ND		ug/kg	0.91	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.91	--	1
1,1-Dichloropropene	ND		ug/kg	3.6	--	1
Bromoform	ND		ug/kg	3.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	--	1
Benzene	ND		ug/kg	0.91	--	1
Toluene	ND		ug/kg	1.4	--	1
Ethylbenzene	ND		ug/kg	0.91	--	1
Chloromethane	ND		ug/kg	3.6	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	1.8	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.91	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1
Trichloroethene	ND		ug/kg	0.91	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715741

Project Number: 171521.52 **Report Date:** 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01 Date Collected: 05/15/17 11:00

Client ID: SHORELINE STOCKPILE #8 (EAST) Date Received: 05/15/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	1.8	--	1
Xylenes, Total	ND		ug/kg	1.8	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	--	1
Dibromomethane	ND		ug/kg	3.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.6	--	1
Styrene	ND		ug/kg	1.8	--	1
Dichlorodifluoromethane	ND		ug/kg	9.1	--	1
Acetone	ND		ug/kg	33	--	1
Carbon disulfide	ND		ug/kg	3.6	--	1
Methyl ethyl ketone	ND		ug/kg	9.1	--	1
Methyl isobutyl ketone	ND		ug/kg	9.1	--	1
2-Hexanone	ND		ug/kg	9.1	--	1
Bromochloromethane	ND		ug/kg	3.6	--	1
Tetrahydrofuran	ND		ug/kg	3.6	--	1
2,2-Dichloropropane	ND		ug/kg	4.6	--	1
1,2-Dibromoethane	ND		ug/kg	3.6	--	1
1,3-Dichloropropane	ND		ug/kg	3.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.91	--	1
Bromobenzene	ND		ug/kg	4.6	--	1
n-Butylbenzene	ND		ug/kg	0.91	--	1
sec-Butylbenzene	ND		ug/kg	0.91	--	1
tert-Butylbenzene	ND		ug/kg	3.6	--	1
o-Chlorotoluene	ND		ug/kg	3.6	--	1
p-Chlorotoluene	ND		ug/kg	3.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.6	--	1
Isopropylbenzene	ND		ug/kg	0.91	--	1
p-Isopropyltoluene	ND		ug/kg	0.91	--	1
Naphthalene	ND		ug/kg	3.6	--	1
n-Propylbenzene	ND		ug/kg	0.91	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715741

Project Number: 171521.52 **Report Date:** 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01 Date Collected: 05/15/17 11:00

Client ID: SHORELINE STOCKPILE #8 (EAST) Date Received: 05/15/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.6	--	1
Diisopropyl Ether	ND		ug/kg	3.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.6	--	1
1,4-Dioxane	ND		ug/kg	36	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/18/17 17:10
Analyst: MV
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.76	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.76	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.76	--	1
Chlorobenzene	ND		ug/kg	0.76	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.76	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	--	1
Bromodichloromethane	ND		ug/kg	0.76	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.76	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.76	--	1
1,1-Dichloropropene	ND		ug/kg	3.0	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	--	1
Benzene	ND		ug/kg	0.76	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.76	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.76	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.76	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715741

Project Number: 171521.52 **Report Date:** 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02 Date Collected: 05/15/17 11:15

Client ID: SHORELINE STOCKPILE #8 (WEST) Date Received: 05/15/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	1.5	--	1
Xylenes, Total	ND		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.76	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.76	--	1
Dibromomethane	ND		ug/kg	3.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.6	--	1
Acetone	ND		ug/kg	27	--	1
Carbon disulfide	ND		ug/kg	3.0	--	1
Methyl ethyl ketone	ND		ug/kg	7.6	--	1
Methyl isobutyl ketone	ND		ug/kg	7.6	--	1
2-Hexanone	ND		ug/kg	7.6	--	1
Bromochloromethane	ND		ug/kg	3.0	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	3.8	--	1
1,2-Dibromoethane	ND		ug/kg	3.0	--	1
1,3-Dichloropropane	ND		ug/kg	3.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.76	--	1
Bromobenzene	ND		ug/kg	3.8	--	1
n-Butylbenzene	ND		ug/kg	0.76	--	1
sec-Butylbenzene	ND		ug/kg	0.76	--	1
tert-Butylbenzene	ND		ug/kg	3.0	--	1
o-Chlorotoluene	ND		ug/kg	3.0	--	1
p-Chlorotoluene	ND		ug/kg	3.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.76	--	1
p-Isopropyltoluene	ND		ug/kg	0.76	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.76	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT
Lab Number: L1715741
Project Number: 171521.52
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.8	--	1
Diisopropyl Ether	ND		ug/kg	3.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.0	--	1
1,4-Dioxane	ND		ug/kg	30	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/18/17 09:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1004807-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	4.3		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/18/17 09:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1004807-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/18/17 09:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1004807-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/18/17 09:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1004807-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/19/17 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1005174-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/19/17 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1005174-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/19/17 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1005174-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/19/17 09:23
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1005174-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1004807-3 WG1004807-4								
Methylene chloride	92		92		70-130	0		20
1,1-Dichloroethane	87		94		70-130	8		20
Chloroform	91		96		70-130	5		20
Carbon tetrachloride	100		100		70-130	0		20
1,2-Dichloropropane	96		92		70-130	4		20
Dibromochloromethane	103		104		70-130	1		20
1,1,2-Trichloroethane	102		105		70-130	3		20
Tetrachloroethene	104		108		70-130	4		20
Chlorobenzene	104		106		70-130	2		20
Trichlorofluoromethane	100		100		70-130	0		20
1,2-Dichloroethane	89		92		70-130	3		20
1,1,1-Trichloroethane	97		100		70-130	3		20
Bromodichloromethane	97		92		70-130	5		20
trans-1,3-Dichloropropene	103		103		70-130	0		20
cis-1,3-Dichloropropene	93		92		70-130	1		20
1,1-Dichloropropene	100		102		70-130	2		20
Bromoform	103		107		70-130	4		20
1,1,2,2-Tetrachloroethane	106		104		70-130	2		20
Benzene	97		98		70-130	1		20
Toluene	102		105		70-130	3		20
Ethylbenzene	104		107		70-130	3		20
Chloromethane	92		93		70-130	1		20
Bromomethane	101		102		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1004807-3 WG1004807-4								
Vinyl chloride	99		96		70-130	3		20
Chloroethane	98		98		70-130	0		20
1,1-Dichloroethene	85		87		70-130	2		20
trans-1,2-Dichloroethene	92		98		70-130	6		20
Trichloroethene	99		101		70-130	2		20
1,2-Dichlorobenzene	106		110		70-130	4		20
1,3-Dichlorobenzene	106		111		70-130	5		20
1,4-Dichlorobenzene	106		110		70-130	4		20
Methyl tert butyl ether	92		92		70-130	0		20
p/m-Xylene	103		107		70-130	4		20
o-Xylene	104		106		70-130	2		20
cis-1,2-Dichloroethene	88		96		70-130	9		20
Dibromomethane	94		90		70-130	4		20
1,4-Dichlorobutane	102		104		70-130	2		20
1,2,3-Trichloropropane	108		108		70-130	0		20
Styrene	105		106		70-130	1		20
Dichlorodifluoromethane	94		96		70-130	2		20
Acetone	95		89		70-130	7		20
Carbon disulfide	74		**68**	Q	70-130	8		20
Methyl ethyl ketone	90		87		70-130	3		20
Methyl isobutyl ketone	105		102		70-130	3		20
2-Hexanone	109		101		70-130	8		20
Ethyl methacrylate	109		106		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1004807-3 WG1004807-4								
Acrylonitrile	91		93		70-130	2		20
Bromochloromethane	93		93		70-130	0		20
Tetrahydrofuran	102		88		70-130	15		20
2,2-Dichloropropane	92		99		70-130	7		20
1,2-Dibromoethane	102		102		70-130	0		20
1,3-Dichloropropane	101		102		70-130	1		20
1,1,1,2-Tetrachloroethane	104		106		70-130	2		20
Bromobenzene	105		110		70-130	5		20
n-Butylbenzene	111		116		70-130	4		20
sec-Butylbenzene	111		112		70-130	1		20
tert-Butylbenzene	110		112		70-130	2		20
o-Chlorotoluene	107		111		70-130	4		20
p-Chlorotoluene	110		111		70-130	1		20
1,2-Dibromo-3-chloropropane	102		104		70-130	2		20
Hexachlorobutadiene	110		118		70-130	7		20
Isopropylbenzene	105		109		70-130	4		20
p-Isopropyltoluene	109		114		70-130	4		20
Naphthalene	103		105		70-130	2		20
n-Propylbenzene	106		111		70-130	5		20
1,2,3-Trichlorobenzene	103		109		70-130	6		20
1,2,4-Trichlorobenzene	107		112		70-130	5		20
1,3,5-Trimethylbenzene	110		112		70-130	2		20
1,2,4-Trimethylbenzene	109		114		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1004807-3 WG1004807-4								
trans-1,4-Dichloro-2-butene	107		102		70-130	5		20
Diethyl ether	93		91		70-130	2		20
Diisopropyl Ether	87		91		70-130	4		20
Ethyl-Tert-Butyl-Ether	87		91		70-130	4		20
Tertiary-Amyl Methyl Ether	96		95		70-130	1		20
1,4-Dioxane	90		82		70-130	9		20
2-Chloroethylvinyl ether	92		82		70-130	11		20
Halothane	92		97		70-130	5		20
Ethyl Acetate	93		91		70-130	2		20
Freon-113	100		90		70-130	11		20
Vinyl acetate	86		89		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		93		70-130
Toluene-d8	104		102		70-130
4-Bromofluorobenzene	96		99		70-130
Dibromofluoromethane	97		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1005174-3 WG1005174-4								
Methylene chloride	104		100		70-130	4		20
1,1-Dichloroethane	104		101		70-130	3		20
Chloroform	103		99		70-130	4		20
Carbon tetrachloride	111		109		70-130	2		20
1,2-Dichloropropane	101		100		70-130	1		20
Dibromochloromethane	111		102		70-130	8		20
1,1,2-Trichloroethane	112		104		70-130	7		20
Tetrachloroethene	117		109		70-130	7		20
Chlorobenzene	113		105		70-130	7		20
Trichlorofluoromethane	109		108		70-130	1		20
1,2-Dichloroethane	104		96		70-130	8		20
1,1,1-Trichloroethane	108		107		70-130	1		20
Bromodichloromethane	101		99		70-130	2		20
trans-1,3-Dichloropropene	111		104		70-130	7		20
cis-1,3-Dichloropropene	101		96		70-130	5		20
1,1-Dichloropropene	110		109		70-130	1		20
Bromoform	112		102		70-130	9		20
1,1,2,2-Tetrachloroethane	115		106		70-130	8		20
Benzene	108		107		70-130	1		20
Toluene	114		105		70-130	8		20
Ethylbenzene	114		106		70-130	7		20
Chloromethane	106		105		70-130	1		20
Bromomethane	98		93		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1005174-3 WG1005174-4								
Vinyl chloride	110		108		70-130	2		20
Chloroethane	106		101		70-130	5		20
1,1-Dichloroethene	94		99		70-130	5		20
trans-1,2-Dichloroethene	105		102		70-130	3		20
Trichloroethene	110		101		70-130	9		20
1,2-Dichlorobenzene	116		106		70-130	9		20
1,3-Dichlorobenzene	117		109		70-130	7		20
1,4-Dichlorobenzene	114		104		70-130	9		20
Methyl tert butyl ether	100		96		70-130	4		20
p/m-Xylene	114		107		70-130	6		20
o-Xylene	116		108		70-130	7		20
cis-1,2-Dichloroethene	105		98		70-130	7		20
Dibromomethane	100		97		70-130	3		20
1,4-Dichlorobutane	115		106		70-130	8		20
1,2,3-Trichloropropane	112		105		70-130	6		20
Styrene	115		107		70-130	7		20
Dichlorodifluoromethane	109		108		70-130	1		20
Acetone	111		111		70-130	0		20
Carbon disulfide	80		80		70-130	0		20
Methyl ethyl ketone	98		100		70-130	2		20
Methyl isobutyl ketone	113		101		70-130	11		20
2-Hexanone	115		107		70-130	7		20
Ethyl methacrylate	114		104		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1005174-3 WG1005174-4								
Acrylonitrile	109		106		70-130	3		20
Bromochloromethane	104		102		70-130	2		20
Tetrahydrofuran	119		117		70-130	2		20
2,2-Dichloropropane	105		103		70-130	2		20
1,2-Dibromoethane	111		104		70-130	7		20
1,3-Dichloropropane	111		103		70-130	7		20
1,1,1,2-Tetrachloroethane	111		104		70-130	7		20
Bromobenzene	114		104		70-130	9		20
n-Butylbenzene	120		115		70-130	4		20
sec-Butylbenzene	121		114		70-130	6		20
tert-Butylbenzene	120		110		70-130	9		20
o-Chlorotoluene	117		104		70-130	12		20
p-Chlorotoluene	119		105		70-130	13		20
1,2-Dibromo-3-chloropropane	110		104		70-130	6		20
Hexachlorobutadiene	122		112		70-130	9		20
Isopropylbenzene	119		108		70-130	10		20
p-Isopropyltoluene	119		111		70-130	7		20
Naphthalene	114		105		70-130	8		20
n-Propylbenzene	121		112		70-130	8		20
1,2,3-Trichlorobenzene	117		107		70-130	9		20
1,2,4-Trichlorobenzene	115		107		70-130	7		20
1,3,5-Trimethylbenzene	118		110		70-130	7		20
1,2,4-Trimethylbenzene	119		110		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1005174-3 WG1005174-4								
trans-1,4-Dichloro-2-butene	112		104		70-130	7		20
Diethyl ether	99		94		70-130	5		20
Diisopropyl Ether	103		101		70-130	2		20
Ethyl-Tert-Butyl-Ether	101		99		70-130	2		20
Tertiary-Amyl Methyl Ether	105		98		70-130	7		20
1,4-Dioxane	102		100		70-130	2		20
2-Chloroethylvinyl ether	**182**	Q	**158**	Q	70-130	14		20
Halothane	106		105		70-130	1		20
Ethyl Acetate	108		104		70-130	4		20
Freon-113	103		108		70-130	5		20
Vinyl acetate	104		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	96		101		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/18/17 17:44
Analyst: CB
Percent Solids: 84%

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/17/17 18:55

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	660		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	210	--	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	2200		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	400		ug/kg	120	--	1
Benzo(a)pyrene	340		ug/kg	160	--	1
Benzo(b)fluoranthene	430		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715741

Project Number: 171521.52 **Report Date:** 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01 Date Collected: 05/15/17 11:00

Client ID: SHORELINE STOCKPILE #8 (EAST) Date Received: 05/15/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	130		ug/kg	120	--	1
Chrysene	400		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	220		ug/kg	120	--	1
Benzo(ghi)perylene	180		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	520		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	220		ug/kg	160	--	1
Pyrene	650		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	950	--	1
Pentachlorophenol	ND		ug/kg	390	--	1
Phenol	ND		ug/kg	200	--	1
2-Methylphenol	ND		ug/kg	200	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	77		30-130
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	62		30-130
2,4,6-Tribromophenol	61		30-130
4-Terphenyl-d14	50		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/18/17 18:10
Analyst: CB
Percent Solids: 76%

Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/17/17 18:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	590		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	ND		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	840		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	330		ug/kg	130	--	1
Benzo(a)pyrene	320		ug/kg	170	--	1
Benzo(b)fluoranthene	380		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715741

Project Number: 171521.52 **Report Date:** 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02 Date Collected: 05/15/17 11:15

Client ID: SHORELINE STOCKPILE #8 (WEST) Date Received: 05/15/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	320		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	160		ug/kg	130	--	1
Benzo(ghi)perylene	180		ug/kg	170	--	1
Fluorene	ND		ug/kg	220	--	1
Phenanthrene	410		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	170	--	1
Pyrene	570		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	470	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	440	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		30-130
Phenol-d6	84		30-130
Nitrobenzene-d5	87		30-130
2-Fluorobiphenyl	64		30-130
2,4,6-Tribromophenol	65		30-130
4-Terphenyl-d14	46		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/18/17 08:51
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/17/17 18:55

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1004516-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/18/17 08:51
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/17/17 18:55

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1004516-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/18/17 08:51
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 05/17/17 18:55

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1004516-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		30-130
Phenol-d6	69		30-130
Nitrobenzene-d5	71		30-130
2-Fluorobiphenyl	62		30-130
2,4,6-Tribromophenol	68		30-130
4-Terphenyl-d14	56		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1004516-2 WG1004516-3								
Acenaphthene	48		44		40-140	9		30
1,2,4-Trichlorobenzene	60		49		40-140	20		30
Hexachlorobenzene	55		53		40-140	4		30
Bis(2-chloroethyl)ether	58		46		40-140	23		30
2-Chloronaphthalene	56		49		40-140	13		30
1,2-Dichlorobenzene	53		44		40-140	19		30
1,3-Dichlorobenzene	51		43		40-140	17		30
1,4-Dichlorobenzene	53		44		40-140	19		30
3,3'-Dichlorobenzidine	42		44		40-140	5		30
2,4-Dinitrotoluene	54		52		40-140	4		30
2,6-Dinitrotoluene	61		55		40-140	10		30
Azobenzene	49		46		40-140	6		30
Fluoranthene	48		48		40-140	0		30
4-Bromophenyl phenyl ether	56		53		40-140	6		30
Bis(2-chloroisopropyl)ether	46		**38**	Q	40-140	19		30
Bis(2-chloroethoxy)methane	58		50		40-140	15		30
Hexachlorobutadiene	54		44		40-140	20		30
Hexachloroethane	56		46		40-140	20		30
Isophorone	62		55		40-140	12		30
Naphthalene	54		45		40-140	18		30
Nitrobenzene	62		51		40-140	19		30
Bis(2-ethylhexyl)phthalate	46		45		40-140	2		30
Butyl benzyl phthalate	49		54		40-140	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1004516-2 WG1004516-3								
Di-n-butylphthalate	47		54		40-140	14		30
Di-n-octylphthalate	46		**39**	Q	40-140	16		30
Diethyl phthalate	48		46		40-140	4		30
Dimethyl phthalate	57		55		40-140	4		30
Benzo(a)anthracene	47		46		40-140	2		30
Benzo(a)pyrene	49		**37**	Q	40-140	28		30
Benzo(b)fluoranthene	48		**39**	Q	40-140	21		30
Benzo(k)fluoranthene	48		47		40-140	2		30
Chrysene	46		45		40-140	2		30
Acenaphthylene	55		50		40-140	10		30
Anthracene	46		47		40-140	2		30
Benzo(ghi)perylene	49		45		40-140	9		30
Fluorene	49		45		40-140	9		30
Phenanthrene	46		44		40-140	4		30
Dibenzo(a,h)anthracene	50		50		40-140	0		30
Indeno(1,2,3-cd)pyrene	50		47		40-140	6		30
Pyrene	47		45		40-140	4		30
Aniline	46		40		40-140	14		30
4-Chloroaniline	56		48		40-140	15		30
Dibenzofuran	49		46		40-140	6		30
2-Methylnaphthalene	52		46		40-140	12		30
Acetophenone	64		54		40-140	17		30
2,4,6-Trichlorophenol	64		60		30-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1004516-2 WG1004516-3								
2-Chlorophenol	62		51		30-130	19		30
2,4-Dichlorophenol	64		57		30-130	12		30
2,4-Dimethylphenol	68		61		30-130	11		30
2-Nitrophenol	68		58		30-130	16		30
4-Nitrophenol	62		56		30-130	10		30
2,4-Dinitrophenol	54		46		30-130	16		30
Pentachlorophenol	47		46		30-130	2		30
Phenol	53		46		30-130	14		30
2-Methylphenol	62		54		30-130	14		30
3-Methylphenol/4-Methylphenol	68		61		30-130	11		30
2,4,5-Trichlorophenol	63		59		30-130	7		30
Pyridine	41		34		30-130	19		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61		53		30-130
Phenol-d6	64		57		30-130
Nitrobenzene-d5	69		58		30-130
2-Fluorobiphenyl	60		52		30-130
2,4,6-Tribromophenol	67		63		30-130
4-Terphenyl-d14	53		64		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/19/17 05:30
Analyst: MEO
Percent Solids: 84%

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 12:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	194000		ug/kg	37200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	57		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/19/17 06:03
Analyst: MEO
Percent Solids: 76%

Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 12:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	356000		ug/kg	43100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 05/18/17 22:59
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 05/18/17 12:35

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG1004791-1					
TPH	ND		ug/kg	31400	--

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG1004791-2								
TPH	85		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	91				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/18/17 17:24
Analyst: AF
Percent Solids: 84%

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/17/17 13:53
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	--	1	A
Aroclor 1221	ND		ug/kg	37.8	--	1	A
Aroclor 1232	ND		ug/kg	37.8	--	1	A
Aroclor 1242	ND		ug/kg	37.8	--	1	A
Aroclor 1248	ND		ug/kg	37.8	--	1	A
Aroclor 1254	64.2		ug/kg	37.8	--	1	A
Aroclor 1260	48.0		ug/kg	37.8	--	1	A
Aroclor 1262	ND		ug/kg	37.8	--	1	A
Aroclor 1268	ND		ug/kg	37.8	--	1	A
PCBs, Total	112		ug/kg	37.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/18/17 17:37
Analyst: AF
Percent Solids: 76%

Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/17/17 13:53
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.6	--	1	A
Aroclor 1221	ND		ug/kg	42.6	--	1	A
Aroclor 1232	ND		ug/kg	42.6	--	1	A
Aroclor 1242	ND		ug/kg	42.6	--	1	A
Aroclor 1248	ND		ug/kg	42.6	--	1	A
Aroclor 1254	ND		ug/kg	42.6	--	1	A
Aroclor 1260	ND		ug/kg	42.6	--	1	B
Aroclor 1262	ND		ug/kg	42.6	--	1	A
Aroclor 1268	ND		ug/kg	42.6	--	1	A
PCBs, Total	ND		ug/kg	42.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 05/18/17 16:34
Analyst: AF

Extraction Method: EPA 3546
Extraction Date: 05/17/17 13:53
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG1004389-1						
Aroclor 1016	ND		ug/kg	32.3	--	A
Aroclor 1221	ND		ug/kg	32.3	--	A
Aroclor 1232	ND		ug/kg	32.3	--	A
Aroclor 1242	ND		ug/kg	32.3	--	A
Aroclor 1248	ND		ug/kg	32.3	--	A
Aroclor 1254	ND		ug/kg	32.3	--	A
Aroclor 1260	ND		ug/kg	32.3	--	A
Aroclor 1262	ND		ug/kg	32.3	--	A
Aroclor 1268	ND		ug/kg	32.3	--	A
PCBs, Total	ND		ug/kg	32.3	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1004389-2 WG1004389-3									
Aroclor 1016	80		68		40-140	16		30	A
Aroclor 1260	96		78		40-140	21		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		71		30-150	A
Decachlorobiphenyl	104		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		63		30-150	B
Decachlorobiphenyl	100		82		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/19/17 11:15
Analyst: JW
Percent Solids: 84%

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/17/17 23:36
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.35	--	1	A
Lindane	ND		ug/kg	3.12	--	1	A
Alpha-BHC	ND		ug/kg	3.90	--	1	A
Beta-BHC	ND		ug/kg	9.35	--	1	A
Heptachlor	ND		ug/kg	4.68	--	1	A
Aldrin	ND		ug/kg	9.35	--	1	A
Heptachlor epoxide	ND		ug/kg	17.5	--	1	A
Endrin	ND		ug/kg	3.90	--	1	A
Endrin ketone	ND		ug/kg	9.35	--	1	A
Dieldrin	ND		ug/kg	5.85	--	1	A
4,4'-DDE	ND		ug/kg	9.35	--	1	A
4,4'-DDD	ND		ug/kg	9.35	--	1	A
4,4'-DDT	ND		ug/kg	17.5	--	1	A
Endosulfan I	ND		ug/kg	9.35	--	1	A
Endosulfan II	ND		ug/kg	9.35	--	1	A
Endosulfan sulfate	ND		ug/kg	3.90	--	1	A
Methoxychlor	ND		ug/kg	17.5	--	1	A
Chlordane	ND		ug/kg	76.0	--	1	A
Hexachlorobenzene	ND		ug/kg	9.35	--	1	A
Toxaphene	ND		ug/kg	175	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	72		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/18/17 17:56
Analyst: SL
Percent Solids: 84%
Methylation Date: 05/17/17 18:08

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3900	--	1	A
MCPA	ND		ug/kg	3900	--	1	A
Dalapon	ND		ug/kg	39	--	1	A
Dicamba	ND		ug/kg	39	--	1	A
Dichloroprop	ND		ug/kg	39	--	1	A
2,4-D	ND		ug/kg	39	--	1	A
2,4-DB	ND		ug/kg	39	--	1	A
2,4,5-T	ND		ug/kg	39	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	39	--	1	A
Dinoseb	ND		ug/kg	39	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	94		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/19/17 11:31
Analyst: JW
Percent Solids: 76%

Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/17/17 23:36
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.4	--	1	A
Lindane	ND		ug/kg	3.45	--	1	A
Alpha-BHC	ND		ug/kg	4.31	--	1	A
Beta-BHC	ND		ug/kg	10.4	--	1	A
Heptachlor	ND		ug/kg	5.18	--	1	A
Aldrin	ND		ug/kg	10.4	--	1	A
Heptachlor epoxide	ND		ug/kg	19.4	--	1	A
Endrin	ND		ug/kg	4.31	--	1	A
Endrin ketone	ND		ug/kg	10.4	--	1	A
Dieldrin	ND		ug/kg	6.47	--	1	A
4,4'-DDE	ND		ug/kg	10.4	--	1	A
4,4'-DDD	ND		ug/kg	10.4	--	1	A
4,4'-DDT	ND		ug/kg	19.4	--	1	A
Endosulfan I	ND		ug/kg	10.4	--	1	A
Endosulfan II	ND		ug/kg	10.4	--	1	A
Endosulfan sulfate	ND		ug/kg	4.31	--	1	A
Methoxychlor	ND		ug/kg	19.4	--	1	A
Chlordane	ND		ug/kg	84.1	--	1	A
Hexachlorobenzene	ND		ug/kg	10.4	--	1	A
Toxaphene	ND		ug/kg	194	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/18/17 18:15
Analyst: SL
Percent Solids: 76%
Methylation Date: 05/17/17 18:08

Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4300	--	1	A
MCPA	ND		ug/kg	4300	--	1	A
Dalapon	ND		ug/kg	43	--	1	A
Dicamba	ND		ug/kg	43	--	1	A
Dichloroprop	ND		ug/kg	43	--	1	A
2,4-D	ND		ug/kg	43	--	1	A
2,4-DB	ND		ug/kg	43	--	1	A
2,4,5-T	ND		ug/kg	43	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	43	--	1	A
Dinoseb	ND		ug/kg	43	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 05/18/17 09:44
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

Methylation Date: 05/17/17 18:01

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-02 Batch: WG1004136-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	59		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 05/18/17 16:44
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/17/17 23:37
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-02 Batch: WG1004565-1						
Delta-BHC	ND		ug/kg	7.88	--	A
Lindane	ND		ug/kg	2.63	--	A
Alpha-BHC	ND		ug/kg	3.28	--	A
Beta-BHC	ND		ug/kg	7.88	--	A
Heptachlor	ND		ug/kg	3.94	--	A
Aldrin	ND		ug/kg	7.88	--	A
Heptachlor epoxide	ND		ug/kg	14.8	--	A
Endrin	ND		ug/kg	3.28	--	A
Endrin ketone	ND		ug/kg	7.88	--	A
Dieldrin	ND		ug/kg	4.92	--	A
4,4'-DDE	ND		ug/kg	7.88	--	A
4,4'-DDD	ND		ug/kg	7.88	--	A
4,4'-DDT	ND		ug/kg	14.8	--	A
Endosulfan I	ND		ug/kg	7.88	--	A
Endosulfan II	ND		ug/kg	7.88	--	A
Endosulfan sulfate	ND		ug/kg	3.28	--	A
Methoxychlor	ND		ug/kg	14.8	--	A
Chlordane	ND		ug/kg	64.0	--	A
Hexachlorobenzene	ND		ug/kg	7.88	--	A
Toxaphene	ND		ug/kg	148	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	70		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1004136-2 WG1004136-3									
MCPP	105		100		40-140	5		30	A
MCPA	73		68		40-140	7		30	A
Dalapon	57		53		40-140	7		30	A
Dicamba	70		66		40-140	6		30	A
Dichloroprop	99		94		40-140	5		30	A
2,4-D	74		68		40-140	8		30	A
2,4-DB	74		73		40-140	1		30	A
2,4,5-T	70		66		40-140	6		30	A
2,4,5-TP (Silvex)	70		66		40-140	6		30	A
Dinoseb	**6**	Q	**4**	Q	40-140	**36**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		80		30-150	A
DCAA	67		64		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1004565-2 WG1004565-3									
Delta-BHC	95		95		40-140	0		30	A
Lindane	88		91		40-140	3		30	A
Alpha-BHC	93		96		40-140	3		30	A
Beta-BHC	89		88		40-140	1		30	A
Heptachlor	87		87		40-140	0		30	A
Aldrin	90		93		40-140	3		30	A
Heptachlor epoxide	91		95		40-140	4		30	A
Endrin	95		98		40-140	3		30	A
Endrin ketone	87		105		40-140	19		30	A
Dieldrin	101		106		40-140	5		30	A
4,4'-DDE	98		101		40-140	3		30	A
4,4'-DDD	91		96		40-140	5		30	A
4,4'-DDT	98		102		40-140	4		30	A
Endosulfan I	89		93		40-140	4		30	A
Endosulfan II	93		101		40-140	8		30	A
Endosulfan sulfate	72		91		40-140	23		30	A
Methoxychlor	92		99		40-140	7		30	A
Hexachlorobenzene	81		85		40-140	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1004565-2 WG1004565-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		89		30-150	B
Decachlorobiphenyl	61		77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		86		30-150	A
Decachlorobiphenyl	78		89		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

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: WG1004565-4 WG1004565-5									
Toxaphene	69		72		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		86		30-150	B
Decachlorobiphenyl	75		80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		81		30-150	A
Decachlorobiphenyl	84		84		30-150	A

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 84%

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	2.8		mg/kg	2.2	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Arsenic, Total	24		mg/kg	0.45	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Barium, Total	28		mg/kg	0.45	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.22	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.45	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Chromium, Total	18		mg/kg	0.45	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Lead, Total	120		mg/kg	2.2	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Mercury, Total	0.913		mg/kg	0.075	--	1	05/16/17 09:25	05/17/17 13:59	EPA 7471B	97,7471B	BV
Nickel, Total	11		mg/kg	1.1	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.2	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.45	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.2	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Vanadium, Total	18		mg/kg	0.45	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS
Zinc, Total	110		mg/kg	2.2	--	1	05/16/17 16:10	05/16/17 22:59	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 76%

Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified

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	2.5	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Arsenic, Total	26		mg/kg	0.51	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Barium, Total	29		mg/kg	0.51	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.25	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.51	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Chromium, Total	18		mg/kg	0.51	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Lead, Total	150		mg/kg	2.5	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Mercury, Total	0.643		mg/kg	0.088	--	1	05/16/17 09:25	05/17/17 14:01	EPA 7471B	97,7471B	BV
Nickel, Total	9.3		mg/kg	1.3	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.5	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.51	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.5	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Vanadium, Total	19		mg/kg	0.51	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS
Zinc, Total	220		mg/kg	2.5	--	1	05/16/17 16:10	05/16/17 23:03	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

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: WG1003737-1										
Mercury, Total	ND		mg/kg	0.083	--	1	05/16/17 09:25	05/17/17 09:18	97,7471B	BV

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: WG1003995-1										
Antimony, Total	ND		mg/kg	2.0	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.40	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Barium, Total	ND		mg/kg	0.40	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Chromium, Total	ND		mg/kg	0.40	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Lead, Total	ND		mg/kg	2.0	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Nickel, Total	ND		mg/kg	1.0	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Selenium, Total	ND		mg/kg	2.0	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Silver, Total	ND		mg/kg	0.40	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Thallium, Total	ND		mg/kg	2.0	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.40	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS
Zinc, Total	ND		mg/kg	2.0	--	1	05/16/17 16:10	05/16/17 20:46	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1003737-2 WG1003737-3 SRM Lot Number: D091-540								
Mercury, Total	106		102		72-128	4		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1003995-2 WG1003995-3 SRM Lot Number: D091-540								
Antimony, Total	179		179		1-200	0		30
Arsenic, Total	117		110		80-121	6		30
Barium, Total	96		96		84-117	0		30
Beryllium, Total	113		113		83-117	0		30
Cadmium, Total	114		111		83-117	3		30
Chromium, Total	105		105		80-119	0		30
Lead, Total	116		110		82-118	5		30
Nickel, Total	116		108		83-117	7		30
Selenium, Total	107		101		79-121	6		30
Silver, Total	105		99		76-124	6		30
Thallium, Total	113		106		80-121	6		30
Vanadium, Total	104		104		78-122	0		30
Zinc, Total	113		108		82-118	5		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
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	05/18/17 01:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/15/17 11:15
Date Received: 05/15/17
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	05/18/17 01:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 05/15/17 11:00
Date Received: 05/15/17
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	790		umhos/cm	10	--	1	-	05/15/17 23:20	1,9050A	AS
Solids, Total	84.4		%	0.100	NA	1	-	05/16/17 11:05	121,2540G	RI
pH (H)	7.3		SU	-	NA	1	-	05/15/17 22:50	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/16/17 13:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/16/17 22:50	05/17/17 00:20	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/16/17 22:50	05/17/17 00:12	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

SAMPLE RESULTS

Lab ID: L1715741-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/15/17 11:15
Date Received: 05/15/17
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	620		umhos/cm	10	--	1	-	05/15/17 23:20	1,9050A	AS
Solids, Total	76.2		%	0.100	NA	1	-	05/16/17 11:05	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	05/15/17 22:50	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/16/17 13:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/16/17 22:50	05/17/17 00:20	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/16/17 22:50	05/17/17 00:12	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715741
Report Date: 05/19/17

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: WG1004116-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	05/16/17 22:50	05/17/17 00:09	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1004118-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	05/16/17 22:50	05/17/17 00:17	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715741

Report Date: 05/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1003676-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1003678-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1004006-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1004116-2								
Sulfide, Reactive	102		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1004118-2								
Cyanide, Reactive	50		-		30-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1003676-2 QC Sample: L1715741-01 Client ID: SHORELINE STOCKPILE #8 (EAST)						
pH (H)	7.3	7.5	SU	3		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1003678-2 QC Sample: L1715741-01 Client ID: SHORELINE STOCKPILE #8 (EAST)						
Specific Conductance @ 25 C	790	860	umhos/cm	8		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 05/15/2017 23:20

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715741-01A	Vial MeOH preserved	A	N/A	5.6	Y	Absent	MCP-8260HLW-10(14)
L1715741-01B	Vial water preserved	A	N/A	5.6	Y	Absent	MCP-8260HLW-10(14)
L1715741-01C	Vial water preserved	A	N/A	5.6	Y	Absent	MCP-8260HLW-10(14)
L1715741-01D	1 Vial MeOH/2 Vial Water	A	N/A	5.6	Y	Absent	HOLD-8260HLW(14)
L1715741-01E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.6	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(),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)
L1715741-01F	Glass 250ml/8oz unpreserved	A	N/A	5.6	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1715741-01G	Glass 500ml/16oz unpreserved	A	N/A	5.6	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1715741-02A	Vial MeOH preserved	A	N/A	5.6	Y	Absent	MCP-8260HLW-10(14)
L1715741-02B	Vial water preserved	A	N/A	5.6	Y	Absent	MCP-8260HLW-10(14)
L1715741-02C	Vial water preserved	A	N/A	5.6	Y	Absent	MCP-8260HLW-10(14)
L1715741-02D	1 Vial MeOH/2 Vial Water	A	N/A	5.6	Y	Absent	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715741
Report Date: 05/19/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715741-02E	Metals Only - Glass 60mL/2oz unp	A	N/A	5.6	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(),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)
L1715741-02F	Glass 250ml/8oz unpreserved	A	N/A	5.6	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1715741-02G	Glass 500ml/16oz unpreserved	A	N/A	5.6	Y	Absent	IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),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 EVERETT	**Lab Number:**	L1715741
Project Number:	171521.52	**Report Date:**	05/19/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1715741
Project Number:	171521.52	**Report Date:**	05/19/17

Data Qualifiers

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:**	L1715741
Project Number:	171521.52	**Report Date:**	05/19/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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 DD 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: 5/15/17

ALPHA Job #: L1715741

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~~ WYNN EVERETT
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.~~0171521.52 ~~Task 6a1~~
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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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 light -	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	Sample Specific Comments
15741 -01	Shoreline Stockpile #8 (East)	5-15-17	11:00	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
-02	Shoreline Stockpile #8 (west)	5-15-17	11:15	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	5/15/17 @ 13:40	ARC	5/15/17 1340
	5/15/17 1804		5/15/17 1804

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.

CHAIN OF CUSTODY

PAGE DD 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: 5/15/17

ALPHA Job #: L1715741

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 ~~Task 5.1~~
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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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
15741 -01	Shoreline Stockpile #8 (East)	5-15-17	11:00	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
-02	Shoreline Stockpile #8 (West)	5-15-17	11:15	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	5/15/17 @ 13:40		5/15/17 1340
	5/15/17 1804		5/15/17 1804

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1715741
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1004807-5	**Lab File ID**	: V04170518A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 05/18/17 09:43

Client Sample No.	Lab Sample ID	Analysis Date
WG1004807-3LCS	WG1004807-3	05/18/17 07:58
WG1004807-4LCSD	WG1004807-4	05/18/17 08:24
SHORELINE STOCKPILE #8 (WEST)	L1715741-02	05/18/17 17:10

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1715741
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1005174-5	**Lab File ID**	: V04170519A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 05/19/17 09:23

Client Sample No.	Lab Sample ID	Analysis Date
WG1005174-3LCS	WG1005174-3	05/19/17 08:04
WG1005174-4LCSD	WG1005174-4	05/19/17 08:30
SHORELINE STOCKPILE #8 (EAST)	L1715741-01	05/19/17 09:49

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1715741	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 05/18/17 07:58	
Lab File ID	: V04170518A01	Init. Calib. Date(s)	: 05/17/17	05/17/17
Sample No	: WG1004807-2	Init. Calib. Times	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	116	0
Dichlorodifluoromethane	0.277	0.26	-	6.1	20	109	0
Chloromethane	0.444	0.407	-	8.3	20	108	0
Vinyl chloride	0.327	0.325	-	0.6	20	116	0
Bromomethane	20	20.29	-	-1.4	20	131	0
Chloroethane	0.184	0.181	-	1.6	20	115	0
Trichlorofluoromethane	0.422	0.425	-	-0.7	20	116	0
Ethyl ether	0.14	0.131	-	6.4	20	106	0
1,1-Dichloroethene	0.27	0.229	-	15.2	20	101	0
Carbon disulfide	1.177	0.875	-	25.7*	20	81	0
Freon-113	0.25	0.249	-	0.4	20	111	0
Acrolein	0.048	0.044	-	8.3	20	104	0
Methylene chloride	0.334	0.308	-	7.8	20	110	0
Acetone	0.068	0.064	-	5.9	20	105	0
trans-1,2-Dichloroethene	0.304	0.279	-	8.2	20	107	0
Methyl acetate	0.183	0.155	-	15.3	20	93	0
Methyl tert-butyl ether	0.811	0.743	-	8.4	20	105	0
tert-Butyl alcohol	0.03	0.03	-	0	20	112	0
Diisopropyl ether	1.146	0.994	-	13.3	20	98	0
1,1-Dichloroethane	0.604	0.524	-	13.2	20	101	0
Halothane	0.232	0.213	-	8.2	20	107	0
Acrylonitrile	0.092	0.084	-	8.7	20	96	0
Ethyl tert-butyl ether	1.034	0.9	-	13	20	99	0
Vinyl acetate	0.641	0.549	-	14.4	20	93	0
cis-1,2-Dichloroethene	0.334	0.294	-	12	20	105	0
2,2-Dichloropropane	0.443	0.41	-	7.4	20	109	0
Bromochloromethane	0.168	0.156	-	7.1	20	103	0
Cyclohexane	0.501	0.478	-	4.6	20	107	0
Chloroform	0.548	0.498	-	9.1	20	106	0
Ethyl acetate	0.272	0.253	-	7	20	104	0
Carbon tetrachloride	0.4	0.398	-	0.5	20	115	0
Tetrahydrofuran	0.089	0.091	-	-2.2	20	120	0
Dibromofluoromethane	0.281	0.274	-	2.5	20	112	0
1,1,1-Trichloroethane	0.466	0.453	-	2.8	20	114	0
2-Butanone	0.117	0.106	-	9.4	20	94	0
1,1-Dichloropropene	0.383	0.382	-	0.3	20	112	0
Benzene	1.146	1.107	-	3.4	20	116	0
tert-Amyl methyl ether	0.768	0.737	-	4	20	110	0
1,2-Dichloroethane-d4	0.258	0.248	-	3.9	20	112	0
1,2-Dichloroethane	0.416	0.371	-	10.8	20	103	0
Methyl cyclohexane	0.4	0.412	-	-3	20	121	0
Trichloroethene	0.311	0.308	-	1	20	115	0
Dibromomethane	0.184	0.173	-	6	20	107	0
1,2-Dichloropropane	0.332	0.32	-	3.6	20	110	0
2-Chloroethyl vinyl ether	0.045	0.042	-	6.7	20	104	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1715741	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 05/18/17 07:58	
Lab File ID	: V04170518A01	Init. Calib. Date(s)	: 05/17/17	05/17/17
Sample No	: WG1004807-2	Init. Calib. Times	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.409	0.397	-	2.9	20	112	0
1,4-Dioxane	0.00259	0.00232	-	10.4	20	100	0
cis-1,3-Dichloropropene	0.497	0.464	-	6.6	20	108	0
Chlorobenzene-d5	1	1	-	0	20	106	0
Toluene-d8	1.163	1.21	-	-4	20	109	0
Toluene	0.869	0.882	-	-1.5	20	108	0
4-Methyl-2-pentanone	0.129	0.135	-	-4.7	20	109	0
Tetrachloroethene	0.425	0.441	-	-3.8	20	110	0
trans-1,3-Dichloropropene	0.5	0.514	-	-2.8	20	107	0
Ethyl methacrylate	0.393	0.427	-	-8.7	20	109	0
1,1,2-Trichloroethane	0.262	0.267	-	-1.9	20	104	0
Chlorodibromomethane	0.419	0.432	-	-3.1	20	108	0
1,3-Dichloropropane	0.506	0.51	-	-0.8	20	105	0
1,2-Dibromoethane	0.337	0.344	-	-2.1	20	105	0
2-Hexanone	0.211	0.23	-	-9	20	113	-.01
Chlorobenzene	1.066	1.103	-	-3.5	20	111	0
Ethylbenzene	1.671	1.745	-	-4.4	20	111	0
1,1,1,2-Tetrachloroethane	0.403	0.421	-	-4.5	20	110	0
p/m Xylene	0.677	0.695	-	-2.7	20	108	0
o Xylene	0.645	0.67	-	-3.9	20	109	0
Styrene	1.077	1.132	-	-5.1	20	109	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Bromoform	0.51	0.528	-	-3.5	20	107	0
Isopropylbenzene	3.302	3.475	-	-5.2	20	111	0
4-Bromofluorobenzene	0.879	0.846	-	3.8	20	99	0
Bromobenzene	0.91	0.952	-	-4.6	20	108	0
n-Propylbenzene	3.664	3.886	-	-6.1	20	109	0
1,4-Dichlorobutane	1.127	1.148	-	-1.9	20	105	0
1,1,2,2-Tetrachloroethane	0.738	0.78	-	-5.7	20	108	0
4-Ethyltoluene	3.182	3.401	-	-6.9	20	111	0
2-Chlorotoluene	2.226	2.382	-	-7	20	112	0
1,3,5-Trimethylbenzene	2.765	3.037	-	-9.8	20	115	0
1,2,3-Trichloropropane	0.543	0.589	-	-8.5	20	109	0
trans-1,4-Dichloro-2-buten	0.203	0.217	-	-6.9	20	108	0
4-Chlorotoluene	2.242	2.468	-	-10.1	20	115	0
tert-Butylbenzene	2.324	2.567	-	-10.5	20	115	0
1,2,4-Trimethylbenzene	2.763	3.01	-	-8.9	20	111	0
sec-Butylbenzene	3.453	3.82	-	-10.6	20	114	0
p-Isopropyltoluene	2.971	3.241	-	-9.1	20	114	0
1,3-Dichlorobenzene	1.665	1.774	-	-6.5	20	111	0
1,4-Dichlorobenzene	1.696	1.802	-	-6.3	20	112	0
p-Diethylbenzene	1.741	1.898	-	-9	20	114	0
n-Butylbenzene	2.591	2.877	-	-11	20	116	0
1,2-Dichlorobenzene	1.549	1.638	-	-5.7	20	108	0
1,2,4,5-Tetramethylbenzene	2.85	3.071	-	-7.8	20	113	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1715741	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 05/18/17 07:58	
Lab File ID	: V04170518A01	**Init. Calib. Date(s)**	: 05/17/17	05/17/17
Sample No	: WG1004807-2	**Init. Calib. Times**	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.127	0.13	-	-2.4	20	110	0
1,3,5-Trichlorobenzene	1.234	1.33	-	-7.8	20	111	0
Hexachlorobutadiene	0.579	0.635	-	-9.7	20	116	0
1,2,4-Trichlorobenzene	1.144	1.226	-	-7.2	20	111	0
Naphthalene	2.459	2.524	-	-2.6	20	106	0
1,2,3-Trichlorobenzene	1.06	1.096	-	-3.4	20	106	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1715741	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 05/19/17 08:04	
Lab File ID	: V04170519A02	**Init. Calib. Date(s)**	: 05/17/17	05/17/17
Sample No	: WG1005174-2	**Init. Calib. Times**	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	112	0
Dichlorodifluoromethane	0.277	0.301	-	-8.7	20	121	0
Chloromethane	0.444	0.47	-	-5.9	20	120	0
Vinyl chloride	0.327	0.36	-	-10.1	20	124	0
Bromomethane	20	19.522	-	2.4	20	121	0
Chloroethane	0.184	0.194	-	-5.4	20	119	0
Trichlorofluoromethane	0.422	0.461	-	-9.2	20	121	0
Ethyl ether	0.14	0.139	-	0.7	20	108	0
1,1-Dichloroethene	0.27	0.254	-	5.9	20	108	0
Carbon disulfide	1.177	0.941	-	20.1*	20	84	0
Freon-113	0.25	0.257	-	-2.8	20	110	0
Acrolein	0.048	0.051	-	-6.2	20	116	0
Methylene chloride	0.334	0.348	-	-4.2	20	119	0
Acetone	0.068	0.075	-	-10.3	20	117	0
trans-1,2-Dichloroethene	0.304	0.32	-	-5.3	20	118	0
Methyl acetate	0.183	0.184	-	-0.5	20	106	0
Methyl tert-butyl ether	0.811	0.814	-	-0.4	20	110	0
tert-Butyl alcohol	0.03	0.031	-	-3.3	20	111	0
Diisopropyl ether	1.146	1.183	-	-3.2	20	113	0
1,1-Dichloroethane	0.604	0.626	-	-3.6	20	116	0
Halothane	0.232	0.245	-	-5.6	20	118	0
Acrylonitrile	0.092	0.101	-	-9.8	20	111	0
Ethyl tert-butyl ether	1.034	1.049	-	-1.5	20	111	0
Vinyl acetate	0.641	0.668	-	-4.2	20	109	0
cis-1,2-Dichloroethene	0.334	0.351	-	-5.1	20	120	0
2,2-Dichloropropane	0.443	0.466	-	-5.2	20	119	0
Bromochloromethane	0.168	0.174	-	-3.6	20	111	0
Cyclohexane	0.501	0.573	-	-14.4	20	124	0
Chloroform	0.548	0.562	-	-2.6	20	115	0
Ethyl acetate	0.272	0.293	-	-7.7	20	116	0
Carbon tetrachloride	0.4	0.444	-	-11	20	124	0
Tetrahydrofuran	0.089	0.106	-	-19.1	20	135	0
Dibromofluoromethane	0.281	0.27	-	3.9	20	106	0
1,1,1-Trichloroethane	0.466	0.502	-	-7.7	20	122	0
2-Butanone	0.117	0.115	-	1.7	20	97	0
1,1-Dichloropropene	0.383	0.424	-	-10.7	20	119	0
Benzene	1.146	1.243	-	-8.5	20	125	0
tert-Amyl methyl ether	0.768	0.804	-	-4.7	20	116	0
1,2-Dichloroethane-d4	0.258	0.256	-	0.8	20	111	0
1,2-Dichloroethane	0.416	0.434	-	-4.3	20	115	0
Methyl cyclohexane	0.4	0.461	-	-15.3	20	130	0
Trichloroethene	0.311	0.344	-	-10.6	20	123	0
Dibromomethane	0.184	0.184	-	0	20	110	0
1,2-Dichloropropane	0.332	0.336	-	-1.2	20	111	0
2-Chloroethyl vinyl ether	0.045	0.082	-	-82.2*	20	197	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1715741	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 05/19/17 08:04	
Lab File ID	: V04170519A02	Init. Calib. Date(s)	: 05/17/17	05/17/17
Sample No	: WG1005174-2	Init. Calib. Times	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.409	0.413	-	-1	20	112	0
1,4-Dioxane	0.00259	0.00264	-	-1.9	20	109	0
cis-1,3-Dichloropropene	0.497	0.505	-	-1.6	20	113	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.163	1.198	-	-3	20	102	0
Toluene	0.869	0.989	-	-13.8	20	115	0
4-Methyl-2-pentanone	0.129	0.145	-	-12.4	20	111	0
Tetrachloroethene	0.425	0.497	-	-16.9	20	117	0
trans-1,3-Dichloropropene	0.5	0.557	-	-11.4	20	110	0
Ethyl methacrylate	0.393	0.446	-	-13.5	20	108	0
1,1,2-Trichloroethane	0.262	0.294	-	-12.2	20	108	0
Chlorodibromomethane	0.419	0.464	-	-10.7	20	110	0
1,3-Dichloropropane	0.506	0.562	-	-11.1	20	109	0
1,2-Dibromoethane	0.337	0.375	-	-11.3	20	108	0
2-Hexanone	0.211	0.242	-	-14.7	20	113	0
Chlorobenzene	1.066	1.207	-	-13.2	20	115	0
Ethylbenzene	1.671	1.914	-	-14.5	20	116	0
1,1,1,2-Tetrachloroethane	0.403	0.447	-	-10.9	20	111	0
p/m Xylene	0.677	0.771	-	-13.9	20	113	0
o Xylene	0.645	0.748	-	-16	20	116	0
Styrene	1.077	1.237	-	-14.9	20	113	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
Bromoform	0.51	0.574	-	-12.5	20	110	0
Isopropylbenzene	3.302	3.938	-	-19.3	20	119	0
4-Bromofluorobenzene	0.879	0.885	-	-0.7	20	98	0
Bromobenzene	0.91	1.036	-	-13.8	20	111	0
n-Propylbenzene	3.664	4.421	-	-20.7*	20	118	0
1,4-Dichlorobutane	1.127	1.297	-	-15.1	20	112	0
1,1,2,2-Tetrachloroethane	0.738	0.848	-	-14.9	20	111	0
4-Ethyltoluene	3.182	3.829	-	-20.3*	20	118	0
2-Chlorotoluene	2.226	2.612	-	-17.3	20	116	0
1,3,5-Trimethylbenzene	2.765	3.276	-	-18.5	20	117	0
1,2,3-Trichloropropane	0.543	0.605	-	-11.4	20	106	0
trans-1,4-Dichloro-2-buten	0.203	0.228	-	-12.3	20	107	0
4-Chlorotoluene	2.242	2.66	-	-18.6	20	117	0
tert-Butylbenzene	2.324	2.789	-	-20	20	118	0
1,2,4-Trimethylbenzene	2.763	3.287	-	-19	20	115	0
sec-Butylbenzene	3.453	4.194	-	-21.5*	20	118	0
p-Isopropyltoluene	2.971	3.527	-	-18.7	20	117	0
1,3-Dichlorobenzene	1.665	1.943	-	-16.7	20	115	0
1,4-Dichlorobenzene	1.696	1.925	-	-13.5	20	114	0
p-Diethylbenzene	1.741	2.057	-	-18.2	20	117	0
n-Butylbenzene	2.591	3.1	-	-19.6	20	118	0
1,2-Dichlorobenzene	1.549	1.792	-	-15.7	20	112	0
1,2,4,5-Tetramethylbenzene	2.85	3.454	-	-21.2*	20	120	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1715741	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 05/19/17 08:04	
Lab File ID	: V04170519A02	**Init. Calib. Date(s)**	: 05/17/17	05/17/17
Sample No	: WG1005174-2	**Init. Calib. Times**	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.127	0.139	-	-9.4	20	112	0
1,3,5-Trichlorobenzene	1.234	1.472	-	-19.3	20	116	0
Hexachlorobutadiene	0.579	0.71	-	-22.6*	20	122	0
1,2,4-Trichlorobenzene	1.144	1.317	-	-15.1	20	113	0
Naphthalene	2.459	2.791	-	-13.5	20	111	0
1,2,3-Trichlorobenzene	1.06	1.243	-	-17.3	20	114	0

* Value outside of QC limits.

Data File Name	**11170518b-01.d**
Data File Path	**I:\Pest11\170518b**
Operator	**PEST11:jw**
Date Acquired	**5/18/2017 13:18**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170518b01,42ee,,c**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.93	686783243.6	% Breakdown
4,4'-DDE	4.27	5798534.521	
4,4'-DDD	4.72	9570448.976	2.19%
Endrin	4.67	447403773.9	% Breakdown
Endrin Aldehyde	5.13	3562620.25	
Endrin Ketone	5.62	9754167.329	2.89%
Name #2			
Endrin #2	5.25	906346370.61	% Breakdown
Endrin Aldehyde #2	5.63	7489846.82	
Endrin Ketone #2	6.20	15159487.35	2.44%
4,4'-DDT #2	5.53	1358802217	% Breakdown
4,4'-DDE #2	4.89	10039458.85	
4,4'-DDD #2	5.31	17226311.16	1.97%

WG1004565-1,-2,-3,-4,-5

I:\Pest11\170519a\11170519a-01.d

Data File Name	**11170519a-01.d**
Data File Path	**I:\Pest11\170519a**
Operator	**PEST11:jw**
Date Acquired	**5/19/2017 10:06**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170519a01,42e,,de**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.92	834547586.9	% Breakdown
4,4'-DDE	4.27	6349286.708	
4,4'-DDD	4.72	7859055.957	1.67%
Endrin	4.66	521550068.6	% Breakdown
Endrin Aldehyde	5.13	4477993.567	
Endrin Ketone	5.62	10307566.46	2.76%
Name #2			
Endrin #2	5.24	1044905438.06	% Breakdown
Endrin Aldehyde #2	5.62	6319008	
Endrin Ketone #2	6.18	11904890.41	1.71%
4,4'-DDT #2	5.52	1591799520	% Breakdown
4,4'-DDE #2	4.88	7844267.795	
4,4'-DDD #2	5.30	13227406.83	1.31%

L1715741-01,-02

ANALYTICAL REPORT

Lab Number:	L1715945
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:	05/22/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1715945
Report Date: 05/22/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1715945-01	DL_1	SOIL	1 HORIZON WAY, EVERETT, MA	05/16/17 11:00	05/16/17
L1715945-02	DL_2	SOIL	1 HORIZON WAY, EVERETT, MA	05/16/17 14:30	05/16/17
L1715945-03	DL_3	SOIL	1 HORIZON WAY, EVERETT, MA	05/16/17 10:00	05/16/17
L1715945-04	DL_4	SOIL	1 HORIZON WAY, EVERETT, MA	05/16/17 08:20	05/16/17

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

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: L1715945
Report Date: 05/22/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1715945-01 through -04, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0872) and 1,4-dioxane (0.0023), as well as the average response factor for 1,4-dioxane.

The continuing calibration standard, associated with L1715945-01 through -04, 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

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1715945-01 through -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG1004136-2/-3 LCS/LCSD recoveries, associated with L1715945-01 through -04, are below the acceptance criteria for dinoseb (6%/4%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 05/22/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/21/17 12:28
Analyst: JC
Percent Solids: 47%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	17	--	1
1,1-Dichloroethane	ND		ug/kg	2.6	--	1
Chloroform	ND		ug/kg	2.6	--	1
Carbon tetrachloride	ND		ug/kg	1.7	--	1
1,2-Dichloropropane	ND		ug/kg	6.0	--	1
Dibromochloromethane	ND		ug/kg	1.7	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	--	1
Tetrachloroethene	ND		ug/kg	1.7	--	1
Chlorobenzene	ND		ug/kg	1.7	--	1
Trichlorofluoromethane	ND		ug/kg	6.8	--	1
1,2-Dichloroethane	ND		ug/kg	1.7	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	--	1
Bromodichloromethane	ND		ug/kg	1.7	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.7	--	1
1,1-Dichloropropene	ND		ug/kg	6.8	--	1
Bromoform	ND		ug/kg	6.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	--	1
Benzene	ND		ug/kg	1.7	--	1
Toluene	ND		ug/kg	2.6	--	1
Ethylbenzene	ND		ug/kg	1.7	--	1
Chloromethane	ND		ug/kg	6.8	--	1
Bromomethane	ND		ug/kg	3.4	--	1
Vinyl chloride	ND		ug/kg	3.4	--	1
Chloroethane	ND		ug/kg	3.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.7	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	--	1
Trichloroethene	ND		ug/kg	1.7	--	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01 Date Collected: 05/16/17 11:00

Client ID: DL_1 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	--	1
Methyl tert butyl ether	ND		ug/kg	3.4	--	1
p/m-Xylene	ND		ug/kg	3.4	--	1
o-Xylene	ND		ug/kg	3.4	--	1
Xylenes, Total	ND		ug/kg	3.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	--	1
Dibromomethane	ND		ug/kg	6.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	6.8	--	1
Styrene	ND		ug/kg	3.4	--	1
Dichlorodifluoromethane	ND		ug/kg	17	--	1
Acetone	70		ug/kg	61	--	1
Carbon disulfide	ND		ug/kg	6.8	--	1
Methyl ethyl ketone	ND		ug/kg	17	--	1
Methyl isobutyl ketone	ND		ug/kg	17	--	1
2-Hexanone	ND		ug/kg	17	--	1
Bromochloromethane	ND		ug/kg	6.8	--	1
Tetrahydrofuran	ND		ug/kg	6.8	--	1
2,2-Dichloropropane	ND		ug/kg	8.5	--	1
1,2-Dibromoethane	ND		ug/kg	6.8	--	1
1,3-Dichloropropane	ND		ug/kg	6.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	--	1
Bromobenzene	ND		ug/kg	8.5	--	1
n-Butylbenzene	ND		ug/kg	1.7	--	1
sec-Butylbenzene	ND		ug/kg	1.7	--	1
tert-Butylbenzene	ND		ug/kg	6.8	--	1
o-Chlorotoluene	ND		ug/kg	6.8	--	1
p-Chlorotoluene	ND		ug/kg	6.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	--	1
Hexachlorobutadiene	ND		ug/kg	6.8	--	1
Isopropylbenzene	ND		ug/kg	1.7	--	1
p-Isopropyltoluene	ND		ug/kg	1.7	--	1
Naphthalene	ND		ug/kg	6.8	--	1
n-Propylbenzene	ND		ug/kg	1.7	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01 Date Collected: 05/16/17 11:00

Client ID: DL_1 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	8.5	--	1
Diisopropyl Ether	ND		ug/kg	6.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	6.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	6.8	--	1
1,4-Dioxane	ND		ug/kg	68	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/21/17 12:54
Analyst: JC
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	18	--	1
1,1-Dichloroethane	ND		ug/kg	2.7	--	1
Chloroform	ND		ug/kg	2.7	--	1
Carbon tetrachloride	ND		ug/kg	1.8	--	1
1,2-Dichloropropane	ND		ug/kg	6.2	--	1
Dibromochloromethane	ND		ug/kg	1.8	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	--	1
Tetrachloroethene	ND		ug/kg	1.8	--	1
Chlorobenzene	ND		ug/kg	1.8	--	1
Trichlorofluoromethane	ND		ug/kg	7.1	--	1
1,2-Dichloroethane	ND		ug/kg	1.8	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.8	--	1
Bromodichloromethane	ND		ug/kg	1.8	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.8	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.8	--	1
1,1-Dichloropropene	ND		ug/kg	7.1	--	1
Bromoform	ND		ug/kg	7.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	--	1
Benzene	ND		ug/kg	1.8	--	1
Toluene	ND		ug/kg	2.7	--	1
Ethylbenzene	ND		ug/kg	1.8	--	1
Chloromethane	ND		ug/kg	7.1	--	1
Bromomethane	ND		ug/kg	3.6	--	1
Vinyl chloride	ND		ug/kg	3.6	--	1
Chloroethane	ND		ug/kg	3.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.8	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	--	1
Trichloroethene	ND		ug/kg	1.8	--	1
1,2-Dichlorobenzene	ND		ug/kg	7.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02 Date Collected: 05/16/17 14:30

Client ID: DL_2 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	7.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	7.1	--	1
Methyl tert butyl ether	ND		ug/kg	3.6	--	1
p/m-Xylene	ND		ug/kg	3.6	--	1
o-Xylene	ND		ug/kg	3.6	--	1
Xylenes, Total	ND		ug/kg	3.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	--	1
Dibromomethane	ND		ug/kg	7.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	7.1	--	1
Styrene	ND		ug/kg	3.6	--	1
Dichlorodifluoromethane	ND		ug/kg	18	--	1
Acetone	ND		ug/kg	64	--	1
Carbon disulfide	ND		ug/kg	7.1	--	1
Methyl ethyl ketone	ND		ug/kg	18	--	1
Methyl isobutyl ketone	ND		ug/kg	18	--	1
2-Hexanone	ND		ug/kg	18	--	1
Bromochloromethane	ND		ug/kg	7.1	--	1
Tetrahydrofuran	ND		ug/kg	7.1	--	1
2,2-Dichloropropane	ND		ug/kg	8.9	--	1
1,2-Dibromoethane	ND		ug/kg	7.1	--	1
1,3-Dichloropropane	ND		ug/kg	7.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.8	--	1
Bromobenzene	ND		ug/kg	8.9	--	1
n-Butylbenzene	ND		ug/kg	1.8	--	1
sec-Butylbenzene	ND		ug/kg	1.8	--	1
tert-Butylbenzene	ND		ug/kg	7.1	--	1
o-Chlorotoluene	ND		ug/kg	7.1	--	1
p-Chlorotoluene	ND		ug/kg	7.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	--	1
Hexachlorobutadiene	ND		ug/kg	7.1	--	1
Isopropylbenzene	ND		ug/kg	1.8	--	1
p-Isopropyltoluene	ND		ug/kg	1.8	--	1
Naphthalene	ND		ug/kg	7.1	--	1
n-Propylbenzene	ND		ug/kg	1.8	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02 Date Collected: 05/16/17 14:30

Client ID: DL_2 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	8.9	--	1
Diisopropyl Ether	ND		ug/kg	7.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	7.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	7.1	--	1
1,4-Dioxane	ND		ug/kg	71	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/16/17 10:00
Date Received: 05/16/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/21/17 13:19
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	6.9	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.0	--	1
Carbon tetrachloride	ND		ug/kg	0.69	--	1
1,2-Dichloropropane	ND		ug/kg	2.4	--	1
Dibromochloromethane	ND		ug/kg	0.69	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	ND		ug/kg	0.69	--	1
Chlorobenzene	ND		ug/kg	0.69	--	1
Trichlorofluoromethane	ND		ug/kg	2.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.69	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	--	1
Bromodichloromethane	ND		ug/kg	0.69	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.69	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.69	--	1
1,1-Dichloropropene	ND		ug/kg	2.8	--	1
Bromoform	ND		ug/kg	2.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	--	1
Benzene	ND		ug/kg	0.69	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	0.69	--	1
Chloromethane	ND		ug/kg	2.8	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.69	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
Trichloroethene	ND		ug/kg	0.69	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03 Date Collected: 05/16/17 10:00

Client ID: DL_3 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
Xylenes, Total	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.69	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.69	--	1
Dibromomethane	ND		ug/kg	2.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	6.9	--	1
Acetone	ND		ug/kg	25	--	1
Carbon disulfide	ND		ug/kg	2.8	--	1
Methyl ethyl ketone	ND		ug/kg	6.9	--	1
Methyl isobutyl ketone	ND		ug/kg	6.9	--	1
2-Hexanone	ND		ug/kg	6.9	--	1
Bromochloromethane	ND		ug/kg	2.8	--	1
Tetrahydrofuran	ND		ug/kg	2.8	--	1
2,2-Dichloropropane	ND		ug/kg	3.4	--	1
1,2-Dibromoethane	ND		ug/kg	2.8	--	1
1,3-Dichloropropane	ND		ug/kg	2.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.69	--	1
Bromobenzene	ND		ug/kg	3.4	--	1
n-Butylbenzene	ND		ug/kg	0.69	--	1
sec-Butylbenzene	ND		ug/kg	0.69	--	1
tert-Butylbenzene	ND		ug/kg	2.8	--	1
o-Chlorotoluene	ND		ug/kg	2.8	--	1
p-Chlorotoluene	ND		ug/kg	2.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	2.8	--	1
Isopropylbenzene	ND		ug/kg	0.69	--	1
p-Isopropyltoluene	ND		ug/kg	0.69	--	1
Naphthalene	ND		ug/kg	2.8	--	1
n-Propylbenzene	ND		ug/kg	0.69	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03 Date Collected: 05/16/17 10:00

Client ID: DL_3 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.4	--	1
Diisopropyl Ether	ND		ug/kg	2.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.8	--	1
1,4-Dioxane	ND		ug/kg	28	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 05/21/17 13:45
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.78	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.78	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.78	--	1
Chlorobenzene	ND		ug/kg	0.78	--	1
Trichlorofluoromethane	ND		ug/kg	3.1	--	1
1,2-Dichloroethane	ND		ug/kg	0.78	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	--	1
Bromodichloromethane	ND		ug/kg	0.78	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	--	1
1,1-Dichloropropene	ND		ug/kg	3.1	--	1
Bromoform	ND		ug/kg	3.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Benzene	ND		ug/kg	0.78	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	0.78	--	1
Chloromethane	ND		ug/kg	3.1	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.78	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	ND		ug/kg	0.78	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04 Date Collected: 05/16/17 08:20

Client ID: DL_4 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	--	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	1.6	--	1
Xylenes, Total	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.78	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.78	--	1
Dibromomethane	ND		ug/kg	3.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	7.8	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	3.1	--	1
Methyl ethyl ketone	ND		ug/kg	7.8	--	1
Methyl isobutyl ketone	ND		ug/kg	7.8	--	1
2-Hexanone	ND		ug/kg	7.8	--	1
Bromochloromethane	ND		ug/kg	3.1	--	1
Tetrahydrofuran	ND		ug/kg	3.1	--	1
2,2-Dichloropropane	ND		ug/kg	3.9	--	1
1,2-Dibromoethane	ND		ug/kg	3.1	--	1
1,3-Dichloropropane	ND		ug/kg	3.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Bromobenzene	ND		ug/kg	3.9	--	1
n-Butylbenzene	ND		ug/kg	0.78	--	1
sec-Butylbenzene	ND		ug/kg	0.78	--	1
tert-Butylbenzene	ND		ug/kg	3.1	--	1
o-Chlorotoluene	ND		ug/kg	3.1	--	1
p-Chlorotoluene	ND		ug/kg	3.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	3.1	--	1
Isopropylbenzene	ND		ug/kg	0.78	--	1
p-Isopropyltoluene	ND		ug/kg	0.78	--	1
Naphthalene	ND		ug/kg	3.1	--	1
n-Propylbenzene	ND		ug/kg	0.78	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04 Date Collected: 05/16/17 08:20

Client ID: DL_4 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.9	--	1
Diisopropyl Ether	ND		ug/kg	3.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.1	--	1
1,4-Dioxane	ND		ug/kg	31	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/21/17 09:54
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG1005700-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/21/17 09:54
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG1005700-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/21/17 09:54
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG1005700-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 05/21/17 09:54
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04 Batch: WG1005700-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG1005700-3 WG1005700-4								
Methylene chloride	106		108		70-130	2		20
1,1-Dichloroethane	109		110		70-130	1		20
Chloroform	107		109		70-130	2		20
Carbon tetrachloride	104		107		70-130	3		20
1,2-Dichloropropane	108		111		70-130	3		20
Dibromochloromethane	89		90		70-130	1		20
1,1,2-Trichloroethane	92		94		70-130	2		20
Tetrachloroethene	91		95		70-130	4		20
Chlorobenzene	91		93		70-130	2		20
Trichlorofluoromethane	107		109		70-130	2		20
1,2-Dichloroethane	103		103		70-130	0		20
1,1,1-Trichloroethane	106		107		70-130	1		20
Bromodichloromethane	103		104		70-130	1		20
trans-1,3-Dichloropropene	90		92		70-130	2		20
cis-1,3-Dichloropropene	108		107		70-130	1		20
1,1-Dichloropropene	107		109		70-130	2		20
Bromoform	82		84		70-130	2		20
1,1,2,2-Tetrachloroethane	84		86		70-130	2		20
Benzene	108		110		70-130	2		20
Toluene	90		93		70-130	3		20
Ethylbenzene	90		93		70-130	3		20
Chloromethane	95		97		70-130	2		20
Bromomethane	124		121		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG1005700-3 WG1005700-4								
Vinyl chloride	100		103		70-130	3		20
Chloroethane	110		113		70-130	3		20
1,1-Dichloroethene	106		111		70-130	5		20
trans-1,2-Dichloroethene	107		110		70-130	3		20
Trichloroethene	107		108		70-130	1		20
1,2-Dichlorobenzene	83		86		70-130	4		20
1,3-Dichlorobenzene	86		87		70-130	1		20
1,4-Dichlorobenzene	83		85		70-130	2		20
Methyl tert butyl ether	103		103		70-130	0		20
p/m-Xylene	92		95		70-130	3		20
o-Xylene	91		92		70-130	1		20
cis-1,2-Dichloroethene	107		109		70-130	2		20
Dibromomethane	107		107		70-130	0		20
1,4-Dichlorobutane	84		85		70-130	1		20
1,2,3-Trichloropropane	85		87		70-130	2		20
Styrene	90		92		70-130	2		20
Dichlorodifluoromethane	76		76		70-130	0		20
Acetone	107		100		70-130	7		20
Carbon disulfide	93		96		70-130	3		20
Methyl ethyl ketone	111		106		70-130	5		20
Methyl isobutyl ketone	86		86		70-130	0		20
2-Hexanone	82		80		70-130	2		20
Ethyl methacrylate	83		83		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG1005700-3 WG1005700-4								
Acrylonitrile	111		110		70-130	1		20
Bromochloromethane	109		112		70-130	3		20
Tetrahydrofuran	108		106		70-130	2		20
2,2-Dichloropropane	108		110		70-130	2		20
1,2-Dibromoethane	91		92		70-130	1		20
1,3-Dichloropropane	92		94		70-130	2		20
1,1,1,2-Tetrachloroethane	90		92		70-130	2		20
Bromobenzene	82		84		70-130	2		20
n-Butylbenzene	87		90		70-130	3		20
sec-Butylbenzene	86		90		70-130	5		20
tert-Butylbenzene	84		87		70-130	4		20
o-Chlorotoluene	85		88		70-130	3		20
p-Chlorotoluene	83		85		70-130	2		20
1,2-Dibromo-3-chloropropane	74		79		70-130	7		20
Hexachlorobutadiene	82		83		70-130	1		20
Isopropylbenzene	83		87		70-130	5		20
p-Isopropyltoluene	85		88		70-130	3		20
Naphthalene	78		79		70-130	1		20
n-Propylbenzene	84		88		70-130	5		20
1,2,3-Trichlorobenzene	80		81		70-130	1		20
1,2,4-Trichlorobenzene	80		81		70-130	1		20
1,3,5-Trimethylbenzene	84		86		70-130	2		20
1,2,4-Trimethylbenzene	84		87		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04 Batch: WG1005700-3 WG1005700-4								
trans-1,4-Dichloro-2-butene	82		85		70-130	4		20
Diethyl ether	107		109		70-130	2		20
Diisopropyl Ether	104		106		70-130	2		20
Ethyl-Tert-Butyl-Ether	102		104		70-130	2		20
Tertiary-Amyl Methyl Ether	103		104		70-130	1		20
1,4-Dioxane	107		102		70-130	5		20
2-Chloroethylvinyl ether	106		106		70-130	0		20
Halothane	111		112		70-130	1		20
Ethyl Acetate	104		104		70-130	0		20
Freon-113	111		113		70-130	2		20
Vinyl acetate	101		101		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	91		93		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	104		103		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/20/17 08:27
Analyst: PS
Percent Solids: 47%

Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 16:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	550		ug/kg	280	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	360	--	1
Hexachlorobenzene	ND		ug/kg	210	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	320	--	1
2-Chloronaphthalene	ND		ug/kg	360	--	1
1,2-Dichlorobenzene	ND		ug/kg	360	--	1
1,3-Dichlorobenzene	ND		ug/kg	360	--	1
1,4-Dichlorobenzene	ND		ug/kg	360	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	360	--	1
2,4-Dinitrotoluene	ND		ug/kg	360	--	1
2,6-Dinitrotoluene	ND		ug/kg	360	--	1
Azobenzene	ND		ug/kg	360	--	1
Fluoranthene	12000		ug/kg	210	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	360	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	430	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	380	--	1
Hexachlorobutadiene	ND		ug/kg	360	--	1
Hexachloroethane	ND		ug/kg	280	--	1
Isophorone	ND		ug/kg	320	--	1
Naphthalene	1300		ug/kg	360	--	1
Nitrobenzene	ND		ug/kg	320	--	1
Bis(2-ethylhexyl)phthalate	1400		ug/kg	360	--	1
Butyl benzyl phthalate	ND		ug/kg	360	--	1
Di-n-butylphthalate	ND		ug/kg	360	--	1
Di-n-octylphthalate	ND		ug/kg	360	--	1
Diethyl phthalate	ND		ug/kg	360	--	1
Dimethyl phthalate	ND		ug/kg	360	--	1
Benzo(a)anthracene	6200		ug/kg	210	--	1
Benzo(a)pyrene	5400		ug/kg	280	--	1
Benzo(b)fluoranthene	6200		ug/kg	210	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01 Date Collected: 05/16/17 11:00

Client ID: DL_1 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	2200		ug/kg	210	--	1
Chrysene	5600		ug/kg	210	--	1
Acenaphthylene	720		ug/kg	280	--	1
Anthracene	3700		ug/kg	210	--	1
Benzo(ghi)perylene	2500		ug/kg	280	--	1
Fluorene	940		ug/kg	360	--	1
Phenanthrene	9200		ug/kg	210	--	1
Dibenzo(a,h)anthracene	660		ug/kg	210	--	1
Indeno(1,2,3-cd)pyrene	2900		ug/kg	280	--	1
Pyrene	11000		ug/kg	210	--	1
Aniline	ND		ug/kg	430	--	1
4-Chloroaniline	ND		ug/kg	360	--	1
Dibenzofuran	540		ug/kg	360	--	1
2-Methylnaphthalene	ND		ug/kg	430	--	1
Acetophenone	ND		ug/kg	360	--	1
2,4,6-Trichlorophenol	ND		ug/kg	210	--	1
2-Chlorophenol	ND		ug/kg	360	--	1
2,4-Dichlorophenol	ND		ug/kg	320	--	1
2,4-Dimethylphenol	ND		ug/kg	360	--	1
2-Nitrophenol	ND		ug/kg	770	--	1
4-Nitrophenol	ND		ug/kg	500	--	1
2,4-Dinitrophenol	ND		ug/kg	1700	--	1
Pentachlorophenol	ND		ug/kg	710	--	1
Phenol	ND		ug/kg	360	--	1
2-Methylphenol	ND		ug/kg	360	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	510	--	1
2,4,5-Trichlorophenol	ND		ug/kg	360	--	1
Pyridine	ND		ug/kg	380	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	69		30-130
2-Fluorobiphenyl	65		30-130
2,4,6-Tribromophenol	74		30-130
4-Terphenyl-d14	58		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/20/17 03:40
Analyst: PS
Percent Solids: 43%

Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 16:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	300	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	380	--	1
Hexachlorobenzene	ND		ug/kg	230	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	340	--	1
2-Chloronaphthalene	ND		ug/kg	380	--	1
1,2-Dichlorobenzene	ND		ug/kg	380	--	1
1,3-Dichlorobenzene	ND		ug/kg	380	--	1
1,4-Dichlorobenzene	ND		ug/kg	380	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	380	--	1
2,4-Dinitrotoluene	ND		ug/kg	380	--	1
2,6-Dinitrotoluene	ND		ug/kg	380	--	1
Azobenzene	ND		ug/kg	380	--	1
Fluoranthene	1100		ug/kg	230	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	380	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	460	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	410	--	1
Hexachlorobutadiene	ND		ug/kg	380	--	1
Hexachloroethane	ND		ug/kg	300	--	1
Isophorone	ND		ug/kg	340	--	1
Naphthalene	ND		ug/kg	380	--	1
Nitrobenzene	ND		ug/kg	340	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	380	--	1
Butyl benzyl phthalate	ND		ug/kg	380	--	1
Di-n-butylphthalate	ND		ug/kg	380	--	1
Di-n-octylphthalate	ND		ug/kg	380	--	1
Diethyl phthalate	ND		ug/kg	380	--	1
Dimethyl phthalate	ND		ug/kg	380	--	1
Benzo(a)anthracene	380		ug/kg	230	--	1
Benzo(a)pyrene	360		ug/kg	300	--	1
Benzo(b)fluoranthene	400		ug/kg	230	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02 Date Collected: 05/16/17 14:30

Client ID: DL_2 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	230	--	1
Chrysene	390		ug/kg	230	--	1
Acenaphthylene	ND		ug/kg	300	--	1
Anthracene	510		ug/kg	230	--	1
Benzo(ghi)perylene	ND		ug/kg	300	--	1
Fluorene	500		ug/kg	380	--	1
Phenanthrene	1900		ug/kg	230	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	230	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	300	--	1
Pyrene	900		ug/kg	230	--	1
Aniline	ND		ug/kg	460	--	1
4-Chloroaniline	ND		ug/kg	380	--	1
Dibenzofuran	440		ug/kg	380	--	1
2-Methylnaphthalene	ND		ug/kg	460	--	1
Acetophenone	ND		ug/kg	380	--	1
2,4,6-Trichlorophenol	ND		ug/kg	230	--	1
2-Chlorophenol	ND		ug/kg	380	--	1
2,4-Dichlorophenol	ND		ug/kg	340	--	1
2,4-Dimethylphenol	ND		ug/kg	380	--	1
2-Nitrophenol	ND		ug/kg	820	--	1
4-Nitrophenol	ND		ug/kg	530	--	1
2,4-Dinitrophenol	ND		ug/kg	1800	--	1
Pentachlorophenol	ND		ug/kg	760	--	1
Phenol	ND		ug/kg	380	--	1
2-Methylphenol	ND		ug/kg	380	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	550	--	1
2,4,5-Trichlorophenol	ND		ug/kg	380	--	1
Pyridine	ND		ug/kg	410	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		30-130
Phenol-d6	92		30-130
Nitrobenzene-d5	86		30-130
2-Fluorobiphenyl	85		30-130
2,4,6-Tribromophenol	99		30-130
4-Terphenyl-d14	73		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/20/17 07:08
Analyst: PS
Percent Solids: 92%

Date Collected: 05/16/17 10:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 16:32

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	230		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	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	130		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	160		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03 Date Collected: 05/16/17 10:00

Client ID: DL_3 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	130		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	140		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	--	1
Pyrene	200		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		30-130
Phenol-d6	84		30-130
Nitrobenzene-d5	76		30-130
2-Fluorobiphenyl	74		30-130
2,4,6-Tribromophenol	90		30-130
4-Terphenyl-d14	70		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 05/20/17 07:35
Analyst: PS
Percent Solids: 81%

Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 16:32

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	1100		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	210		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	590		ug/kg	120	--	1
Benzo(a)pyrene	510		ug/kg	160	--	1
Benzo(b)fluoranthene	740		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1715945

Project Number: 171521.52 **Report Date:** 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04 Date Collected: 05/16/17 08:20

Client ID: DL_4 Date Received: 05/16/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	210		ug/kg	120	--	1
Chrysene	610		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	240		ug/kg	120	--	1
Benzo(ghi)perylene	270		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	760		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	160	--	1
Pyrene	1100		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		30-130
Phenol-d6	80		30-130
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	71		30-130
2,4,6-Tribromophenol	83		30-130
4-Terphenyl-d14	65		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/21/17 16:04
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/18/17 16:32

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1004883-1					
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	140	--
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	170	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	140	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	140	--
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 EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/21/17 16:04
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/18/17 16:32

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1004883-1					
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	140	--
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	170	--

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 05/21/17 16:04
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/18/17 16:32

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG1004883-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		30-130
Phenol-d6	39		30-130
Nitrobenzene-d5	43		30-130
2-Fluorobiphenyl	39		30-130
2,4,6-Tribromophenol	51		30-130
4-Terphenyl-d14	48		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1004883-2 WG1004883-3								
Acenaphthene	44		47		40-140	7		30
1,2,4-Trichlorobenzene	52		58		40-140	11		30
Hexachlorobenzene	53		56		40-140	6		30
Bis(2-chloroethyl)ether	50		56		40-140	11		30
2-Chloronaphthalene	52		57		40-140	9		30
1,2-Dichlorobenzene	45		52		40-140	14		30
1,3-Dichlorobenzene	44		49		40-140	11		30
1,4-Dichlorobenzene	45		52		40-140	14		30
3,3'-Dichlorobenzidine	**37**	Q	**39**	Q	40-140	5		30
2,4-Dinitrotoluene	54		56		40-140	4		30
2,6-Dinitrotoluene	58		60		40-140	3		30
Azobenzene	49		52		40-140	6		30
Fluoranthene	46		49		40-140	6		30
4-Bromophenyl phenyl ether	56		57		40-140	2		30
Bis(2-chloroisopropyl)ether	42		48		40-140	13		30
Bis(2-chloroethoxy)methane	55		61		40-140	10		30
Hexachlorobutadiene	48		53		40-140	10		30
Hexachloroethane	47		54		40-140	14		30
Isophorone	57		63		40-140	10		30
Naphthalene	49		53		40-140	8		30
Nitrobenzene	56		63		40-140	12		30
Bis(2-ethylhexyl)phthalate	46		49		40-140	6		30
Butyl benzyl phthalate	47		51		40-140	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1004883-2 WG1004883-3								
Di-n-butylphthalate	44		48		40-140	9		30
Di-n-octylphthalate	47		50		40-140	6		30
Diethyl phthalate	47		50		40-140	6		30
Dimethyl phthalate	56		60		40-140	7		30
Benzo(a)anthracene	46		48		40-140	4		30
Benzo(a)pyrene	49		53		40-140	8		30
Benzo(b)fluoranthene	48		51		40-140	6		30
Benzo(k)fluoranthene	47		51		40-140	8		30
Chrysene	44		48		40-140	9		30
Acenaphthylene	53		58		40-140	9		30
Anthracene	44		47		40-140	7		30
Benzo(ghi)perylene	46		50		40-140	8		30
Fluorene	47		50		40-140	6		30
Phenanthrene	44		48		40-140	9		30
Dibenzo(a,h)anthracene	45		50		40-140	11		30
Indeno(1,2,3-cd)pyrene	46		51		40-140	10		30
Pyrene	46		49		40-140	6		30
Aniline	41		44		40-140	7		30
4-Chloroaniline	52		51		40-140	2		30
Dibenzofuran	46		50		40-140	8		30
2-Methylnaphthalene	49		53		40-140	8		30
Acetophenone	57		63		40-140	10		30
2,4,6-Trichlorophenol	61		68		30-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG1004883-2 WG1004883-3								
2-Chlorophenol	54		60		30-130	11		30
2,4-Dichlorophenol	59		67		30-130	13		30
2,4-Dimethylphenol	64		70		30-130	9		30
2-Nitrophenol	61		68		30-130	11		30
4-Nitrophenol	59		60		30-130	2		30
2,4-Dinitrophenol	68		70		30-130	3		30
Pentachlorophenol	54		58		30-130	7		30
Phenol	50		54		30-130	8		30
2-Methylphenol	59		62		30-130	5		30
3-Methylphenol/4-Methylphenol	62		70		30-130	12		30
2,4,5-Trichlorophenol	61		65		30-130	6		30
Pyridine	38		43		30-130	12		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		58		30-130
Phenol-d6	56		62		30-130
Nitrobenzene-d5	58		64		30-130
2-Fluorobiphenyl	52		57		30-130
2,4,6-Tribromophenol	57		61		30-130
4-Terphenyl-d14	47		49		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/17/17 12:31
Analyst: BTO
Percent Solids: 47%

Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 23:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	338000		ug/kg	68200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/17/17 13:08
Analyst: BTO
Percent Solids: 43%

Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 23:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	188000		ug/kg	77700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/17/17 11:55
Analyst: BTO
Percent Solids: 92%

Date Collected: 05/16/17 10:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 23:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	36100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 05/17/17 13:45
Analyst: BTO
Percent Solids: 81%

Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 23:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	73000		ug/kg	40700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 05/17/17 10:05
Analyst: BTO

Extraction Method: EPA 3546
Extraction Date: 05/16/17 23:12

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-04 Batch: WG1004128-1					
TPH	ND		ug/kg	31700	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-04 Batch: WG1004128-2								
TPH	67		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	69				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1004128-3 QC Sample: L1715945-03 Client ID: DL_3						
TPH	ND	ND	ug/kg	NC		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		76		40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/19/17 18:32
Analyst: JA
Percent Solids: 47%

Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 09:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	68.0	--	1	A
Aroclor 1221	ND		ug/kg	68.0	--	1	A
Aroclor 1232	ND		ug/kg	68.0	--	1	A
Aroclor 1242	ND		ug/kg	68.0	--	1	A
Aroclor 1248	ND		ug/kg	68.0	--	1	A
Aroclor 1254	ND		ug/kg	68.0	--	1	A
Aroclor 1260	ND		ug/kg	68.0	--	1	A
Aroclor 1262	ND		ug/kg	68.0	--	1	A
Aroclor 1268	ND		ug/kg	68.0	--	1	A
PCBs, Total	ND		ug/kg	68.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/19/17 18:44
Analyst: JA
Percent Solids: 43%

Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 09:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	76.1	--	1	A
Aroclor 1221	ND		ug/kg	76.1	--	1	A
Aroclor 1232	ND		ug/kg	76.1	--	1	A
Aroclor 1242	ND		ug/kg	76.1	--	1	A
Aroclor 1248	ND		ug/kg	76.1	--	1	A
Aroclor 1254	ND		ug/kg	76.1	--	1	A
Aroclor 1260	ND		ug/kg	76.1	--	1	A
Aroclor 1262	ND		ug/kg	76.1	--	1	A
Aroclor 1268	ND		ug/kg	76.1	--	1	A
PCBs, Total	ND		ug/kg	76.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/19/17 18:57
Analyst: JA
Percent Solids: 92%

Date Collected: 05/16/17 10:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 09:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	--	1	A
Aroclor 1221	ND		ug/kg	34.9	--	1	A
Aroclor 1232	ND		ug/kg	34.9	--	1	A
Aroclor 1242	ND		ug/kg	34.9	--	1	A
Aroclor 1248	ND		ug/kg	34.9	--	1	A
Aroclor 1254	127		ug/kg	34.9	--	1	B
Aroclor 1260	ND		ug/kg	34.9	--	1	A
Aroclor 1262	ND		ug/kg	34.9	--	1	A
Aroclor 1268	ND		ug/kg	34.9	--	1	A
PCBs, Total	127		ug/kg	34.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 05/19/17 19:09
Analyst: JA
Percent Solids: 81%

Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/18/17 09:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.8	--	1	A
Aroclor 1221	ND		ug/kg	39.8	--	1	A
Aroclor 1232	ND		ug/kg	39.8	--	1	A
Aroclor 1242	ND		ug/kg	39.8	--	1	A
Aroclor 1248	537		ug/kg	39.8	--	1	B
Aroclor 1254	277		ug/kg	39.8	--	1	A
Aroclor 1260	55.3		ug/kg	39.8	--	1	B
Aroclor 1262	ND		ug/kg	39.8	--	1	A
Aroclor 1268	ND		ug/kg	39.8	--	1	A
PCBs, Total	869		ug/kg	39.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 05/19/17 17:55
Analyst: JA

Extraction Method: EPA 3546
Extraction Date: 05/18/17 09:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-04 Batch: WG1004684-1						
Aroclor 1016	ND		ug/kg	32.0	--	A
Aroclor 1221	ND		ug/kg	32.0	--	A
Aroclor 1232	ND		ug/kg	32.0	--	A
Aroclor 1242	ND		ug/kg	32.0	--	A
Aroclor 1248	ND		ug/kg	32.0	--	A
Aroclor 1254	ND		ug/kg	32.0	--	A
Aroclor 1260	ND		ug/kg	32.0	--	A
Aroclor 1262	ND		ug/kg	32.0	--	A
Aroclor 1268	ND		ug/kg	32.0	--	A
PCBs, Total	ND		ug/kg	32.0	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	95		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

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: WG1004684-2 WG1004684-3									
Aroclor 1016	71		72		40-140	1		30	A
Aroclor 1260	70		71		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		88		30-150	A
Decachlorobiphenyl	81		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	B
Decachlorobiphenyl	86		88		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/19/17 18:27
Analyst: KEG
Percent Solids: 47%

Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 22:39
Cleanup Method: EPA 3620B
Cleanup Date: 05/17/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	16.3	--	1	A
Lindane	ND		ug/kg	5.45	--	1	A
Alpha-BHC	ND		ug/kg	6.81	--	1	A
Beta-BHC	ND		ug/kg	16.3	--	1	A
Heptachlor	ND		ug/kg	8.17	--	1	A
Aldrin	ND		ug/kg	16.3	--	1	A
Heptachlor epoxide	ND		ug/kg	30.6	--	1	A
Endrin	ND		ug/kg	6.81	--	1	A
Endrin ketone	ND		ug/kg	16.3	--	1	A
Dieldrin	ND		ug/kg	10.2	--	1	A
4,4'-DDE	ND		ug/kg	16.3	--	1	A
4,4'-DDD	ND		ug/kg	16.3	--	1	A
4,4'-DDT	ND		ug/kg	30.6	--	1	A
Endosulfan I	ND		ug/kg	16.3	--	1	A
Endosulfan II	ND		ug/kg	16.3	--	1	A
Endosulfan sulfate	ND		ug/kg	6.81	--	1	A
Methoxychlor	ND		ug/kg	30.6	--	1	A
Chlordane	ND		ug/kg	133	--	1	A
Hexachlorobenzene	ND		ug/kg	16.3	--	1	A
Toxaphene	ND		ug/kg	306	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/18/17 17:16
Analyst: SL
Percent Solids: 47%
Methylation Date: 05/17/17 18:08

Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	7000	--	1	A
MCPA	ND		ug/kg	7000	--	1	A
Dalapon	ND		ug/kg	70	--	1	A
Dicamba	ND		ug/kg	70	--	1	A
Dichloroprop	ND		ug/kg	70	--	1	A
2,4-D	ND		ug/kg	70	--	1	A
2,4-DB	ND		ug/kg	70	--	1	A
2,4,5-T	ND		ug/kg	70	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	70	--	1	A
Dinoseb	ND		ug/kg	70	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	64		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/19/17 18:39
Analyst: KEG
Percent Solids: 43%

Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 22:39
Cleanup Method: EPA 3620B
Cleanup Date: 05/17/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	18.5	--	1	A
Lindane	ND		ug/kg	6.16	--	1	A
Alpha-BHC	ND		ug/kg	7.70	--	1	A
Beta-BHC	ND		ug/kg	18.5	--	1	A
Heptachlor	ND		ug/kg	9.24	--	1	A
Aldrin	ND		ug/kg	18.5	--	1	A
Heptachlor epoxide	ND		ug/kg	34.6	--	1	A
Endrin	ND		ug/kg	7.70	--	1	A
Endrin ketone	ND		ug/kg	18.5	--	1	A
Dieldrin	ND		ug/kg	11.6	--	1	A
4,4'-DDE	ND		ug/kg	18.5	--	1	A
4,4'-DDD	ND		ug/kg	18.5	--	1	A
4,4'-DDT	ND		ug/kg	34.6	--	1	A
Endosulfan I	ND		ug/kg	18.5	--	1	A
Endosulfan II	ND		ug/kg	18.5	--	1	A
Endosulfan sulfate	ND		ug/kg	7.70	--	1	A
Methoxychlor	ND		ug/kg	34.6	--	1	A
Chlordane	ND		ug/kg	150	--	1	A
Hexachlorobenzene	ND		ug/kg	18.5	--	1	A
Toxaphene	ND		ug/kg	346	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**1140**	Q	30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/18/17 16:37
Analyst: SL
Percent Solids: 43%
Methylation Date: 05/17/17 18:08

Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	7800	--	1	A
MCPA	ND		ug/kg	7800	--	1	A
Dalapon	ND		ug/kg	78	--	1	A
Dicamba	ND		ug/kg	78	--	1	A
Dichloroprop	ND		ug/kg	78	--	1	A
2,4-D	ND		ug/kg	78	--	1	A
2,4-DB	ND		ug/kg	78	--	1	A
2,4,5-T	ND		ug/kg	78	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	78	--	1	A
Dinoseb	ND		ug/kg	78	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	83		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/19/17 18:52
Analyst: KEG
Percent Solids: 92%

Date Collected: 05/16/17 10:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 22:39
Cleanup Method: EPA 3620B
Cleanup Date: 05/17/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.37	--	1	A
Lindane	ND		ug/kg	2.79	--	1	A
Alpha-BHC	ND		ug/kg	3.49	--	1	A
Beta-BHC	ND		ug/kg	8.37	--	1	A
Heptachlor	ND		ug/kg	4.18	--	1	A
Aldrin	ND		ug/kg	8.37	--	1	A
Heptachlor epoxide	ND		ug/kg	15.7	--	1	A
Endrin	ND		ug/kg	3.49	--	1	A
Endrin ketone	ND		ug/kg	8.37	--	1	A
Dieldrin	ND		ug/kg	5.23	--	1	A
4,4'-DDE	ND		ug/kg	8.37	--	1	A
4,4'-DDD	ND		ug/kg	8.37	--	1	A
4,4'-DDT	ND		ug/kg	15.7	--	1	A
Endosulfan I	ND		ug/kg	8.37	--	1	A
Endosulfan II	ND		ug/kg	8.37	--	1	A
Endosulfan sulfate	ND		ug/kg	3.49	--	1	A
Methoxychlor	ND		ug/kg	15.7	--	1	A
Chlordane	ND		ug/kg	68.0	--	1	A
Hexachlorobenzene	ND		ug/kg	8.37	--	1	A
Toxaphene	ND		ug/kg	157	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	47		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/18/17 16:57
Analyst: SL
Percent Solids: 92%
Methylation Date: 05/17/17 18:08

Date Collected: 05/16/17 10:00
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

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
Dinoseb	ND		ug/kg	36	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	65		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 05/19/17 19:04
Analyst: KEG
Percent Solids: 81%

Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 05/16/17 22:39
Cleanup Method: EPA 3620B
Cleanup Date: 05/17/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.60	--	1	A
Lindane	ND		ug/kg	3.20	--	1	A
Alpha-BHC	ND		ug/kg	4.00	--	1	A
Beta-BHC	ND		ug/kg	9.60	--	1	A
Heptachlor	ND		ug/kg	4.80	--	1	A
Aldrin	ND		ug/kg	9.60	--	1	A
Heptachlor epoxide	ND		ug/kg	18.0	--	1	A
Endrin	ND		ug/kg	4.00	--	1	A
Endrin ketone	ND		ug/kg	9.60	--	1	A
Dieldrin	ND		ug/kg	6.00	--	1	A
4,4'-DDE	ND		ug/kg	9.60	--	1	A
4,4'-DDD	ND		ug/kg	9.60	--	1	A
4,4'-DDT	ND		ug/kg	18.0	--	1	A
Endosulfan I	ND		ug/kg	9.60	--	1	A
Endosulfan II	ND		ug/kg	9.60	--	1	A
Endosulfan sulfate	ND		ug/kg	4.00	--	1	A
Methoxychlor	ND		ug/kg	18.0	--	1	A
Chlordane	ND		ug/kg	78.0	--	1	A
Hexachlorobenzene	ND		ug/kg	9.60	--	1	A
Toxaphene	ND		ug/kg	180	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 05/18/17 16:18
Analyst: SL
Percent Solids: 81%
Methylation Date: 05/17/17 18:08

Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4100	--	1	A
MCPA	ND		ug/kg	4100	--	1	A
Dalapon	ND		ug/kg	41	--	1	A
Dicamba	ND		ug/kg	41	--	1	A
Dichloroprop	ND		ug/kg	41	--	1	A
2,4-D	ND		ug/kg	41	--	1	A
2,4-DB	ND		ug/kg	41	--	1	A
2,4,5-T	ND		ug/kg	41	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	41	--	1	A
Dinoseb	ND		ug/kg	41	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	66		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 05/19/17 17:05
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/16/17 22:39
Cleanup Method: EPA 3620B
Cleanup Date: 05/17/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-04 Batch: WG1004122-1						
Delta-BHC	ND		ug/kg	7.59	--	A
Lindane	ND		ug/kg	2.53	--	A
Alpha-BHC	ND		ug/kg	3.16	--	A
Beta-BHC	ND		ug/kg	7.59	--	A
Heptachlor	ND		ug/kg	3.80	--	A
Aldrin	ND		ug/kg	7.59	--	A
Heptachlor epoxide	ND		ug/kg	14.2	--	A
Endrin	ND		ug/kg	3.16	--	A
Endrin ketone	ND		ug/kg	7.59	--	A
Dieldrin	ND		ug/kg	4.75	--	A
4,4'-DDE	ND		ug/kg	7.59	--	A
4,4'-DDD	ND		ug/kg	7.59	--	A
4,4'-DDT	ND		ug/kg	14.2	--	A
Endosulfan I	ND		ug/kg	7.59	--	A
Endosulfan II	ND		ug/kg	7.59	--	A
Endosulfan sulfate	ND		ug/kg	3.16	--	A
Methoxychlor	ND		ug/kg	14.2	--	A
Chlordane	ND		ug/kg	61.7	--	A
Hexachlorobenzene	ND		ug/kg	7.59	--	A
Toxaphene	ND		ug/kg	142	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	48		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 05/18/17 09:44
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/17/17 00:13

Methylation Date: 05/17/17 18:01

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-04 Batch: WG1004136-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	59		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

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: WG1004122-2 WG1004122-3									
Delta-BHC	72		67		40-140	7		30	A
Lindane	71		65		40-140	9		30	A
Alpha-BHC	77		68		40-140	12		30	A
Beta-BHC	79		77		40-140	3		30	A
Heptachlor	90		85		40-140	6		30	A
Aldrin	72		66		40-140	9		30	A
Heptachlor epoxide	67		61		40-140	9		30	A
Endrin	77		72		40-140	7		30	A
Endrin ketone	59		58		40-140	2		30	A
Dieldrin	73		68		40-140	7		30	A
4,4'-DDE	75		69		40-140	8		30	A
4,4'-DDD	72		66		40-140	9		30	A
4,4'-DDT	74		71		40-140	4		30	A
Endosulfan I	70		64		40-140	9		30	A
Endosulfan II	72		68		40-140	6		30	A
Endosulfan sulfate	52		53		40-140	2		30	A
Methoxychlor	80		76		40-140	5		30	A
Hexachlorobenzene	66		61		40-140	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-04 Batch: WG1004122-2 WG1004122-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		60		30-150	B
Decachlorobiphenyl	58		52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		62		30-150	A
Decachlorobiphenyl	57		51		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

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: WG1004122-4 WG1004122-5									
Toxaphene	77		90		40-140	16		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		69		30-150	B
Decachlorobiphenyl	53		60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		67		30-150	A
Decachlorobiphenyl	41		51		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

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: WG1004136-2 WG1004136-3									
MCPP	105		100		40-140	5		30	A
MCPA	73		68		40-140	7		30	A
Dalapon	57		53		40-140	7		30	A
Dicamba	70		66		40-140	6		30	A
Dichloroprop	99		94		40-140	5		30	A
2,4-D	74		68		40-140	8		30	A
2,4-DB	74		73		40-140	1		30	A
2,4,5-T	70		66		40-140	6		30	A
2,4,5-TP (Silvex)	70		66		40-140	6		30	A
Dinoseb	**6**	Q	**4**	Q	40-140	**36**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		80		30-150	A
DCAA	67		64		30-150	B

METALS

Project Name: WYNN EVERETT
Lab Number: L1715945
Project Number: 171521.52
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 47%

Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified

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	4.08	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Arsenic, Total	176		mg/kg	0.817	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Barium, Total	126		mg/kg	0.817	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.408	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Cadmium, Total	41.6		mg/kg	0.817	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Chromium, Total	21.7		mg/kg	0.817	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Lead, Total	1560		mg/kg	4.08	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Mercury, Total	0.887		mg/kg	0.143	--	1	05/17/17 10:00	05/20/17 14:09	EPA 7471B	97,7471B	BV
Nickel, Total	15.7		mg/kg	2.04	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Selenium, Total	6.19		mg/kg	4.08	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Silver, Total	14.2		mg/kg	0.817	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	4.08	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Vanadium, Total	12.9		mg/kg	0.817	--	1	05/17/17 15:10	05/19/17 15:52	EPA 3050B	97,6010C	PS
Zinc, Total	13200		mg/kg	40.8	--	10	05/17/17 15:10	05/22/17 12:46	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 43%

Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified

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	4.47	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Arsenic, Total	23.8		mg/kg	0.893	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Barium, Total	28.8		mg/kg	0.893	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Beryllium, Total	0.464		mg/kg	0.447	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.893	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Chromium, Total	19.8		mg/kg	0.893	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Lead, Total	78.2		mg/kg	4.47	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Mercury, Total	0.962		mg/kg	0.159	--	1	05/17/17 10:00	05/20/17 14:10	EPA 7471B	97,7471B	BV
Nickel, Total	13.7		mg/kg	2.23	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	4.47	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.893	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	4.47	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Vanadium, Total	25.5		mg/kg	0.893	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS
Zinc, Total	603		mg/kg	4.47	--	1	05/17/17 15:10	05/19/17 15:56	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1715945
Project Number: 171521.52
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 92%

Date Collected: 05/16/17 10:00
Date Received: 05/16/17
Field Prep: Not Specified

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	2.13	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Arsenic, Total	6.10		mg/kg	0.426	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Barium, Total	17.6		mg/kg	0.426	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.213	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.426	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Chromium, Total	7.93		mg/kg	0.426	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Lead, Total	42.3		mg/kg	2.13	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Mercury, Total	0.302		mg/kg	0.068	--	1	05/17/17 10:00	05/20/17 14:12	EPA 7471B	97,7471B	BV
Nickel, Total	4.22		mg/kg	1.06	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	2.13	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.426	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.13	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Vanadium, Total	5.69		mg/kg	0.426	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS
Zinc, Total	126		mg/kg	2.13	--	1	05/17/17 15:10	05/19/17 16:00	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 81%
Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	8.44		mg/kg	2.46	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Arsenic, Total	128		mg/kg	0.493	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Barium, Total	102		mg/kg	0.493	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Beryllium, Total	0.547		mg/kg	0.246	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Cadmium, Total	4.10		mg/kg	0.493	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Chromium, Total	21.2		mg/kg	0.493	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Lead, Total	1620		mg/kg	2.46	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Mercury, Total	8.22		mg/kg	0.804	--	10	05/17/17 10:00	05/20/17 16:02	EPA 7471B	97,7471B	BV
Nickel, Total	22.7		mg/kg	1.23	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Selenium, Total	6.31		mg/kg	2.46	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Silver, Total	4.02		mg/kg	0.493	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Thallium, Total	3.88		mg/kg	2.46	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Vanadium, Total	31.0		mg/kg	0.493	--	1	05/17/17 15:10	05/19/17 16:13	EPA 3050B	97,6010C	PS
Zinc, Total	1150		mg/kg	4.93	--	2	05/17/17 15:10	05/22/17 12:50	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

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: WG1004200-1										
Mercury, Total	ND		mg/kg	0.083	--	1	05/17/17 10:00	05/20/17 13:45	97,7471B	BV

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: WG1004396-1										
Antimony, Total	ND		mg/kg	2.00	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.400	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Barium, Total	ND		mg/kg	0.400	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Chromium, Total	ND		mg/kg	0.400	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Lead, Total	ND		mg/kg	2.00	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Nickel, Total	ND		mg/kg	1.00	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Selenium, Total	ND		mg/kg	2.00	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Silver, Total	ND		mg/kg	0.400	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Thallium, Total	ND		mg/kg	2.00	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.400	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS
Zinc, Total	ND		mg/kg	2.00	--	1	05/17/17 15:10	05/19/17 14:32	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1004200-2 WG1004200-3 SRM Lot Number: D091-540								
Mercury, Total	97		87		72-128	11		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1004396-2 WG1004396-3 SRM Lot Number: D091-540								
Antimony, Total	136		136		1-200	0		30
Arsenic, Total	111		106		80-121	5		30
Barium, Total	99		96		84-117	3		30
Beryllium, Total	100		102		83-117	2		30
Cadmium, Total	105		101		83-117	4		30
Chromium, Total	100		97		80-119	3		30
Lead, Total	105		100		82-118	5		30
Nickel, Total	102		100		83-117	2		30
Selenium, Total	103		99		79-121	4		30
Silver, Total	102		101		76-124	1		30
Thallium, Total	108		104		80-121	4		30
Vanadium, Total	101		102		78-122	1		30
Zinc, Total	103		98		82-118	5		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 11:00
Date Received: 05/16/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/18/17 04:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 05/16/17 14:30
Date Received: 05/16/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	05/18/17 04:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 10:00
Date Received: 05/16/17
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	05/18/17 04:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 08:20
Date Received: 05/16/17
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	05/18/17 04:00	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-01
Client ID: DL_1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 11:00
Date Received: 05/16/17
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	130		umhos/cm	10	--	1	-	05/16/17 22:30	1,9050A	AS
Solids, Total	46.6		%	0.100	NA	1	-	05/17/17 08:40	121,2540G	RI
pH (H)	7.2		SU	-	NA	1	-	05/16/17 21:44	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/17/17 09:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:25	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:17	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-02
Client ID: DL_2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 14:30
Date Received: 05/16/17
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	1200		umhos/cm	10	--	1	-	05/16/17 22:30	1,9050A	AS
Solids, Total	42.6		%	0.100	NA	1	-	05/17/17 08:40	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	-	05/16/17 21:44	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/17/17 09:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:26	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:18	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-03
Client ID: DL_3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 10:00
Date Received: 05/16/17
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	110		umhos/cm	10	--	1	-	05/16/17 22:30	1,9050A	AS
Solids, Total	91.8		%	0.100	NA	1	-	05/17/17 08:40	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	05/16/17 21:44	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/17/17 09:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:26	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:18	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1715945-04
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 08:20
Date Received: 05/16/17
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	420		umhos/cm	10	--	1	-	05/16/17 22:30	1,9050A	AS
Solids, Total	80.6		%	0.100	NA	1	-	05/17/17 08:40	121,2540G	RI
pH (H)	7.1		SU	-	NA	1	-	05/16/17 21:44	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	05/17/17 09:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:26	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:18	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

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: WG1004493-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:15	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1004494-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	05/17/17 21:10	05/17/17 22:23	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1715945

Report Date: 05/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1004107-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1004108-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1004400-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1004493-2								
Sulfide, Reactive	100		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1004494-2								
Cyanide, Reactive	54		-		30-125	-		40

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 05/16/2017 22:33

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715945-01A	Vial MeOH preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-01B	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-01C	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-01D	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	HOLD-8260HLW(2)
L1715945-01E	Metals Only - Glass 60mL/2oz unp	A	N/A	3.7	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(),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)
L1715945-01F	Glass 250ml/8oz unpreserved	A	N/A	3.7	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)
L1715945-01G	Glass 500ml/16oz unpreserved	A	N/A	3.7	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)
L1715945-02A	Vial MeOH preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-02B	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-02C	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-02D	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	HOLD-8260HLW(2)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715945-02E	Metals Only - Glass 60mL/2oz unp	A	N/A	3.7	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(),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)
L1715945-02F	Glass 250ml/8oz unpreserved	A	N/A	3.7	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)
L1715945-02G	Glass 500ml/16oz unpreserved	A	N/A	3.7	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)
L1715945-03A	Vial MeOH preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-03B	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-03C	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-03D	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	HOLD-8260HLW(2)
L1715945-03E	Metals Only - Glass 60mL/2oz unp	A	N/A	3.7	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(),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)
L1715945-03F	Glass 250ml/8oz unpreserved	A	N/A	3.7	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 EVERETT
Project Number: 171521.52

Lab Number: L1715945
Report Date: 05/22/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715945-03G	Glass 500ml/16oz unpreserved	A	N/A	3.7	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)
L1715945-04A	Vial MeOH preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-04B	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-04C	Vial water preserved	A	N/A	3.7	Y	Absent	MCP-8260HLW-10(14)
L1715945-04D	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	HOLD-8260HLW(2)
L1715945-04E	Metals Only - Glass 60mL/2oz unp	A	N/A	3.7	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(),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)
L1715945-04F	Glass 250ml/8oz unpreserved	A	N/A	3.7	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)
L1715945-04G	Glass 500ml/16oz unpreserved	A	N/A	3.7	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 EVERETT	**Lab Number:**	L1715945
Project Number:	171521.52	**Report Date:**	05/22/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1715945
Project Number:	171521.52	**Report Date:**	05/22/17

Data Qualifiers

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
Project Number: 171521.52
Lab Number: L1715945
Report Date: 05/22/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 05/16/17

ALPHA Job #: L1715945

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~~ WYNN EVERETT

Project Location: 1 Horizon Way, Everett, MA

Project #: 171521.52

Project Manager: Neal Carey

ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)

Date Due: 4 day 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 PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

Please email test results to victoria.wood@gza.com and neal.carey@gza.com; TCLP 20x rule applies to MCP 14 Metals

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 metals	VOCs - 8260	SVOCs - 8270 w/ Naphthalene	PCBs, TPH, pH, Herbicides, Pesticides	Reactivity, Flashpoint	Conductivity, Ignitability	Sulfide	Cyanide	Cyanide (Reactivity)	Sample Specific Comments
L1715945-01	DL-1	5-16-17	1100	S	KFM	X	X	X	X	X	X	X	X	X	
02	DL-2		1430			X	X	X	X	X	X	X	X	X	
03	DL-3		1000			X	X	X	X	X	X	X	X	X	
04	DL-4		0820			X	X	X	X	X	X	X	X	X	

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

TOTAL # BOTTLES

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Container Type

Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dunn	5-16-17 1540		5/16/17 1540
T Mandella	5/16/17 1835		5/16/17 1835

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 Terms and Conditions. See reverse side.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 05/16/17

ALPHA Job #: L1715945

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 #: 171521.52
Project Manager: Neal Carey
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 4 day 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 PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)
Please email test results to victoria.wood@gza.com and neal.carey@gza.com TCLP 20x rule applies to MCP 14 Metals

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 metals	VOCs - 8260	SVOCs - 8270 w/ Naphthalene	PCBs, TPH, pH	Herbicides	Pesticides w/ Toxaphene	Conductivity, Flashpoint	Sulfate	Cyanide (Reactivity)	Sample Specific Comments	TOTAL # BOTTLES
15945-01	DL-1	5-16-17	1100	S	KFM	X	X	X	X	X	X	X	X	X		
02	DL-2	↓	1430	↓	↓	X	X	X	X	X	X	X	X	X		
03	DL-3		1000			X	X	X	X	X	X	X	X	X		
04	DL-4	↓	0820	↓	↓	X	X	X	X	X	X	X	X	X		

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?

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dunn	5-16-17 1540		5/16/17 1540
T Mansfield	5/16/17 1835		5/16/17 1835

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 Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1715945
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1005700-5	**Lab File ID**	: V11170521A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 05/21/17 09:54

Client Sample No.	Lab Sample ID	Analysis Date
WG1005700-3LCS	WG1005700-3	05/21/17 08:12
WG1005700-4LCSD	WG1005700-4	05/21/17 08:38
DL_1	L1715945-01	05/21/17 12:28
DL_2	L1715945-02	05/21/17 12:54
DL_3	L1715945-03	05/21/17 13:19
DL_4	L1715945-04	05/21/17 13:45

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1715945	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 05/21/17 08:12	
Lab File ID	: V11170521A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1005700-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	65	0
Dichlorodifluoromethane	0.322	0.244	-	24.2*	20	48	0
Chloromethane	0.417	0.396	-	5	20	63	0
Vinyl chloride	0.349	0.349	-	0	20	65	0
Bromomethane	20	24.862	-	-24.3*	20	73	0
Chloroethane	0.2	0.221	-	-10.5	20	68	0
Trichlorofluoromethane	0.406	0.435	-	-7.1	20	68	0
Ethyl ether	0.164	0.175	-	-6.7	20	71	0
1,1-Dichloroethene	0.232	0.246	-	-6	20	70	0
Carbon disulfide	20	18.592	-	7	20	59	0
Freon-113	0.209	0.233	-	-11.5	20	71	0
Acrolein	20	17.702	-	11.5	20	62	0
Methylene chloride	0.307	0.327	-	-6.5	20	72	0
Acetone	20	21.456	-	-7.3	20	67	-.01
trans-1,2-Dichloroethene	0.272	0.292	-	-7.4	20	71	0
Methyl acetate	0.193	0.209	-	-8.3	20	72	0
Methyl tert-butyl ether	0.851	0.878	-	-3.2	20	69	0
tert-Butyl alcohol	0.031	0.03	-	3.2	20	60	0
Diisopropyl ether	1.164	1.213	-	-4.2	20	69	0
1,1-Dichloroethane	0.588	0.642	-	-9.2	20	72	0
Halothane	0.184	0.204	-	-10.9	20	72	-.01
Acrylonitrile	0.098	0.109	-	-11.2	20	71	0
Ethyl tert-butyl ether	1.064	1.087	-	-2.2	20	68	0
Vinyl acetate	0.773	0.78	-	-0.9	20	66	-.01
cis-1,2-Dichloroethene	0.308	0.329	-	-6.8	20	71	0
2,2-Dichloropropane	0.454	0.491	-	-8.1	20	71	0
Bromochloromethane	0.131	0.142	-	-8.4	20	69	0
Cyclohexane	0.532	0.567	-	-6.6	20	69	-.01
Chloroform	0.529	0.565	-	-6.8	20	70	0
Ethyl acetate	0.303	0.315	-	-4	20	69	-.01
Carbon tetrachloride	0.369	0.385	-	-4.3	20	68	0
Tetrahydrofuran	0.105	0.113	-	-7.6	20	68	-.01
Dibromofluoromethane	0.243	0.253	-	-4.1	20	67	-.01
1,1,1-Trichloroethane	0.449	0.476	-	-6	20	69	0
2-Butanone	0.121	0.134	-	-10.7	20	69	-.01
1,1-Dichloropropene	0.386	0.414	-	-7.3	20	69	0
Benzene	1.185	1.28	-	-8	20	71	0
tert-Amyl methyl ether	0.823	0.849	-	-3.2	20	68	0
1,2-Dichloroethane-d4	0.291	0.28	-	3.8	20	63	0
1,2-Dichloroethane	0.445	0.46	-	-3.4	20	68	0
Methyl cyclohexane	0.426	0.462	-	-8.5	20	70	-.01
Trichloroethene	0.294	0.314	-	-6.8	20	71	0
Dibromomethane	0.17	0.183	-	-7.6	20	71	0
1,2-Dichloropropane	0.338	0.364	-	-7.7	20	72	0
2-Chloroethyl vinyl ether	0.156	0.167	-	-7.1	20	69	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1715945	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 05/21/17 08:12	
Lab File ID	: V11170521A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1005700-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.431	-	-2.9	20	68	0
1,4-Dioxane	0.0025	0.00269	-	-7.6	20	72	0
cis-1,3-Dichloropropene	0.504	0.543	-	-7.7	20	71	0
Chlorobenzene-d5	1	1	-	0	20	76	0
Toluene-d8	1.317	1.2	-	8.9	20	69	0
Toluene	0.945	0.849	-	10.2	20	70	0
4-Methyl-2-pentanone	0.134	0.115	-	14.2	20	64	0
Tetrachloroethene	0.369	0.335	-	9.2	20	69	0
trans-1,3-Dichloropropene	0.573	0.517	-	9.8	20	71	0
Ethyl methacrylate	0.46	0.382	-	17	20	65	0
1,1,2-Trichloroethane	0.272	0.25	-	8.1	20	71	0
Chlorodibromomethane	0.368	0.326	-	11.4	20	70	0
1,3-Dichloropropane	0.572	0.524	-	8.4	20	70	0
1,2-Dibromoethane	0.299	0.271	-	9.4	20	70	0
2-Hexanone	0.251	0.205	-	18.3	20	64	0
Chlorobenzene	1.019	0.93	-	8.7	20	71	0
Ethylbenzene	1.803	1.628	-	9.7	20	70	0
1,1,1,2-Tetrachloroethane	0.36	0.325	-	9.7	20	70	0
p/m Xylene	0.665	0.61	-	8.3	20	70	0
o Xylene	0.64	0.582	-	9.1	20	70	0
Styrene	1.085	0.979	-	9.8	20	70	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	80	0
Bromoform	0.436	0.36	-	17.4	20	69	0
Isopropylbenzene	3.219	2.676	-	16.9	20	68	0
4-Bromofluorobenzene	0.989	0.929	-	6.1	20	76	0
Bromobenzene	0.796	0.656	-	17.6	20	68	0
n-Propylbenzene	4.022	3.4	-	15.5	20	70	0
1,4-Dichlorobutane	1.308	1.093	-	16.4	20	69	0
1,1,2,2-Tetrachloroethane	0.783	0.659	-	15.8	20	69	0
4-Ethyltoluene	3.218	2.714	-	15.7	20	69	0
2-Chlorotoluene	2.804	2.382	-	15	20	70	0
1,3,5-Trimethylbenzene	2.77	2.336	-	15.7	20	69	0
1,2,3-Trichloropropane	0.639	0.541	-	15.3	20	69	0
trans-1,4-Dichloro-2-buten	0.258	0.213	-	17.4	20	66	0
4-Chlorotoluene	2.539	2.103	-	17.2	20	69	0
tert-Butylbenzene	2.25	1.882	-	16.4	20	68	0
1,2,4-Trimethylbenzene	2.819	2.364	-	16.1	20	69	0
sec-Butylbenzene	3.481	3.001	-	13.8	20	70	0
p-Isopropyltoluene	2.911	2.47	-	15.1	20	69	0
1,3-Dichlorobenzene	1.577	1.359	-	13.8	20	72	0
1,4-Dichlorobenzene	1.611	1.339	-	16.9	20	70	0
p-Diethylbenzene	1.735	1.459	-	15.9	20	69	0
n-Butylbenzene	2.967	2.587	-	12.8	20	71	0
1,2-Dichlorobenzene	1.481	1.228	-	17.1	20	69	0
1,2,4,5-Tetramethylbenzene	2.795	2.257	-	19.2	20	67	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1715945	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 05/21/17 08:12	
Lab File ID	: V11170521A01	**Init. Calib. Date(s)**	: 05/01/17	05/01/17
Sample No	: WG1005700-2	**Init. Calib. Times**	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.113	0.084	-	25.7*	20	63	0
1,3,5-Trichlorobenzene	1.183	0.984	-	16.8	20	70	0
Hexachlorobutadiene	0.57	0.469	-	17.7	20	68	0
1,2,4-Trichlorobenzene	1.086	0.873	-	19.6	20	68	0
Naphthalene	2.33	1.815	-	22.1*	20	65	0
1,2,3-Trichlorobenzene	0.992	0.797	-	19.7	20	67	0

* Value outside of QC limits.

I:\Pest18\170519a\18170519a-01.d

Data File Name	**18170519a-01.d**
Data File Path	**I:\Pest18\170519a**
Operator	**PEST18:keg**
Date Acquired	**5/19/2017 9:55**
Acq. Method File	**PEST.M**
Sample Name	**pem18170519a01,42ee**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
Endrin	4.49	122812639	% Breakdown
Endrin Aldehyde	4.96	1348210.52	
Endrin Ketone	5.46	2440708.429	2.99%
4,4'-DDT	4.76	207612697.9	% Breakdown
4,4'-DDE	4.09	678483.051	
4,4'-DDD	4.56	810181.574	0.71%
Endrin #2	5.17	164848483.53	% Breakdown
Endrin Aldehyde #2	5.56	1760243.41	
Endrin Ketone #2	6.11	2241408.893	2.37%
4,4'-DDT #2	5.46	294486678	
4,4'-DDE #2	4.81	907743.967	
4,4'-DDD #2	5.24	1078913.21	0.67%

######### Data File Path **I:\Pest17\150918**

wg1004122-1,2,3,4,5
L1715945-01,02,03,04

ANALYTICAL REPORT

Lab Number:	L1716175
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:	05/22/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1716175
Report Date: 05/22/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1716175-01	SHORELINE STOCKPILE #8 (EAST)	SOIL	1 HORIZON WAY, EVERETT, MA	05/15/17 11:00	05/15/17
L1716175-02	SHORELINE STOCKPILE #8 (WEST)	SOIL	1 HORIZON WAY, EVERETT, MA	05/15/17 11:15	05/15/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716175
Report Date: 05/22/17

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.

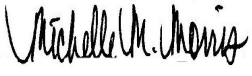
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Michelle M. Morris

Title: Technical Director/Representative Date: 05/22/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1716175
Project Number: 171521.52
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1716175-01
Client ID: SHORELINE STOCKPILE #8 (EAST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/15/17 11:00
Date Received: 05/15/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/18/17 15:18

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	0.507		mg/l	0.500	--	1	05/19/17 17:35	05/20/17 13:05	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Lab Number: L1716175
Project Number: 171521.52
Report Date: 05/22/17

SAMPLE RESULTS

Lab ID: L1716175-02
Client ID: SHORELINE STOCKPILE #8 (WEST)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/15/17 11:15
Date Received: 05/15/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/18/17 15:18

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	0.669		mg/l	0.500	--	1	05/19/17 17:35	05/20/17 13:52	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1716175
Report Date: 05/22/17

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: WG1005331-1										
Lead, TCLP	ND		mg/l	0.500	--	1	05/19/17 17:35	05/20/17 12:28	1,6010C	AM

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/18/17 15:18

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1716175

Report Date: 05/22/17

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: WG1005331-2								
Lead, TCLP	100		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716175
Report Date: 05/22/17

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: WG1005331-3 QC Sample: L1715511-01 Client ID: MS Sample												
Lead, TCLP	ND	5.1	5.40	106		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716175
Report Date: 05/22/17

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: WG1005331-4 QC Sample: L1715511-01 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716175
Report Date: 05/22/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1716175-01A	Glass 500ml/16oz unpreserved	A	N/A	5.6	Y	Absent	-
L1716175-01X	Plastic 120ml HNO3 preserved Ext	A	<2	5.6	Y	Absent	PB-CI(180)
L1716175-01X9	Tumble Vessel	A	N/A	5.6	Y	Absent	-
L1716175-02A	Glass 500ml/16oz unpreserved	A	N/A	5.6	Y	Absent	-
L1716175-02X	Plastic 120ml HNO3 preserved Ext	A	<2	5.6	Y	Absent	PB-CI(180)
L1716175-02X9	Tumble Vessel	A	N/A	5.6	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1716175
Project Number:	171521.52	**Report Date:**	05/22/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1716175
Project Number:	171521.52	**Report Date:**	05/22/17

Data Qualifiers

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:**	L1716175
Project Number:	171521.52	**Report Date:**	05/22/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 5/16/17

L1716175 EO 5/18/17

CHAIN OF CUSTODY

PAGE DD 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: 5/15/17

ALPHA Job #: L1715741

Client Information

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

Project Information

Project Name: ~~Wynn Boston Harbor~~ WYNN EVERETT
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01-0171521.52~~ ~~Task 6+1~~
Project Manager: Neal Carey
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

☐ These samples have been Previously analyzed by Alpha

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 meatals

16175

ANALYSIS

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

TOTAL # BOTTLES

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, Ignit.	Herbicides, Pesticides w/ Toxiphene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	TCLP-Pb					Sample Specific Comments
5744 -01	Shoreline Stockpile #8 (East)	5-15-17	11:00	Soil	DRS	X	X	X	X	X	X	X		X				
-02	Shoreline Stockpile #8 (West)	5-15-17	11:15	Soil	DRS	X	X	X	X	X	X	X		X				

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	5/15/17 @ 13:40	ARC	5/15/17 1340
	5/15/17 1804		5/15/17 1804

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)

ANALYTICAL REPORT

Lab Number:	L1716611
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:	05/25/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1716611
Report Date: 05/25/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1716611-01	DL_1	SOIL	1 HORIZON WAY, EVERETT, MA	05/16/17 11:00	05/16/17
L1716611-02	DL_4	SOIL	1 HORIZON WAY, EVERETT, MA	05/16/17 08:20	05/16/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716611
Report Date: 05/25/17

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:  Melissa Cripps

Title: Technical Director/Representative Date: 05/25/17

METALS

Project Name:	WYNN EVERETT	**Lab Number:**	L1716611
Project Number:	171521.52	**Report Date:**	05/25/17

SAMPLE RESULTS

Lab ID:	L1716611-01	Date Collected:	05/16/17 11:00
Client ID:	DL_1	Date Received:	05/16/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	05/23/17 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	05/24/17 12:10	05/24/17 14:48	EPA 3015	1,6010C	PS
Cadmium, TCLP	ND		mg/l	0.100	--	1	05/24/17 12:10	05/24/17 14:48	EPA 3015	1,6010C	PS
Lead, TCLP	1.37		mg/l	0.500	--	1	05/24/17 12:10	05/24/17 14:48	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1716611
Project Number: 171521.52
Report Date: 05/25/17

SAMPLE RESULTS

Lab ID: L1716611-02
Client ID: DL_4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 05/16/17 08:20
Date Received: 05/16/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 05/23/17 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	05/24/17 12:10	05/24/17 14:52	EPA 3015	1,6010C	PS
Lead, TCLP	7.68		mg/l	0.500	--	1	05/24/17 12:10	05/24/17 14:52	EPA 3015	1,6010C	PS
Mercury, TCLP	ND		mg/l	0.0010	--	1	05/24/17 13:27	05/24/17 19:18	EPA 7470A	1,7470A	EA

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1716611
Report Date: 05/25/17

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: WG1006582-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	05/24/17 12:10	05/24/17 13:51	1,6010C	PS
Cadmium, TCLP	ND		mg/l	0.100	--	1	05/24/17 12:10	05/24/17 13:51	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	05/24/17 12:10	05/24/17 13:51	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 05/23/17 14:44

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): 02 Batch: WG1006617-1										
Mercury, TCLP	ND		mg/l	0.0010	--	1	05/24/17 13:27	05/24/17 19:14	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 05/23/17 14:44

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1716611

Report Date: 05/25/17

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: WG1006582-2								
Arsenic, TCLP	113		-		75-125	-		20
Cadmium, TCLP	111		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1006617-2								
Mercury, TCLP	106		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716611
Report Date: 05/25/17

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: WG1006582-3 QC Sample: L1715814-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.38	115		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.572	112		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.23	102		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1006617-3 QC Sample: L1716611-02 Client ID: DL_4												
Mercury, TCLP	ND	0.025	0.0266	106		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716611
Report Date: 05/25/17

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: WG1006582-4 QC Sample: L1715814-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1006617-4 QC Sample: L1716611-02 Client ID: DL_4						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1716611
Report Date: 05/25/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1716611-01A	Glass 500ml/16oz unpreserved	A	N/A	3.7	Y	Absent	-
L1716611-01X	Plastic 120ml HNO3 preserved Ext	A	<2	3.7	Y	Absent	CD-CI(180),AS-CI(180),PB-CI(180)
L1716611-01X9	Tumble Vessel	A	N/A	3.7	Y	Absent	-
L1716611-02A	Glass 500ml/16oz unpreserved	A	N/A	3.7	Y	Absent	-
L1716611-02X	Plastic 120ml HNO3 preserved Ext	A	<2	3.7	Y	Absent	AS-CI(180),HG-C(28),PB-CI(180)
L1716611-02X9	Tumble Vessel	A	N/A	3.7	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1716611
Project Number:	171521.52	**Report Date:**	05/25/17

GLOSSARY

Acronyms

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1716611
Project Number:	171521.52	**Report Date:**	05/25/17

Data Qualifiers

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
Project Number: 171521.52
Lab Number: L1716611
Report Date: 05/25/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 5/18/17

jk 5/23/17 L1716611

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 05/16/17

ALPHA Job #: ~~L1715445~~

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 EVERETT Wynn Boston Harbor
Project Location: 1 Horizon Way, Everett, MA
Project #: 171521.52
Project Manager: Neal Carey
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)
Date Due: 4 day 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 PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)
Please email lab results to victoria.wood@gza.com and neal.carey@gza.com TCLP 20x rule applies to MCP 14 metals

ANALYSIS

TCLP-PB,CD,AS

TCLP-PB,HG,AS

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP-PB,CD,AS	TCLP-PB,HG,AS	Sample Specific Comments
16611-01	DL_1	5-16-17	1100	S	KFM			
-02	DL_2		1430					
-03	DL_3		1000					
-02 dup	DL_4		0820			x	x	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew D...	5-16-17		
T Bonilla	5/16/17 1520		

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 Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1718045
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:	06/07/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1718045
Report Date: 06/07/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1718045-01	LAGOON NORTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/01/17 14:30	06/01/17
L1718045-02	LAGOON SOUTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/01/17 14:30	06/01/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

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: L1718045
Report Date: 06/07/17

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:** L1718045
Project Number: 171521.52 **Report Date:** 06/07/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1718045-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0872) and 1,4-dioxane (0.0023), as well as the average response factor for 1,4-dioxane.

The continuing calibration standard, associated with L1718045-01 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

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1718045-01 and -02: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG1009787-2/-3 LCS/LCSD recoveries, associated with L1718045-01 and -02, are below the acceptance criteria for dinoseb (6%/4%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

Project Name:	WYNN EVERETT	**Lab Number:**	L1718045
Project Number:	171521.52	**Report Date:**	06/07/17

Case Narrative (continued)

Metals

In reference to question H:

The WG1009843-3 LCSD recovery, associated with L1718045-01 and -02, is outside the acceptance criteria for Barium . Re-analysis of the LCSD yielded an unacceptable recovery of 80%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 06/07/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/06/17 03:21
Analyst: BD
Percent Solids: 42%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	--	1
1,1-Dichloroethane	ND		ug/kg	1.8	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	4.1	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	--	1
Tetrachloroethene	ND		ug/kg	1.2	--	1
Chlorobenzene	ND		ug/kg	1.2	--	1
Trichlorofluoromethane	ND		ug/kg	4.7	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	--	1
Bromodichloromethane	ND		ug/kg	1.2	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	--	1
1,1-Dichloropropene	ND		ug/kg	4.7	--	1
Bromoform	ND		ug/kg	4.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	--	1
Benzene	ND		ug/kg	1.2	--	1
Toluene	ND		ug/kg	1.8	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.7	--	1
Bromomethane	ND		ug/kg	2.4	--	1
Vinyl chloride	ND		ug/kg	2.4	--	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
Trichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718045

Project Number: 171521.52 **Report Date:** 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01 Date Collected: 06/01/17 14:30

Client ID: LAGOON NORTH Date Received: 06/01/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	--	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	2.4	--	1
Xylenes, Total	ND		ug/kg	2.4	--	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	4.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.7	--	1
Styrene	ND		ug/kg	2.4	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	42	--	1
Carbon disulfide	ND		ug/kg	4.7	--	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	4.7	--	1
Tetrahydrofuran	ND		ug/kg	4.7	--	1
2,2-Dichloropropane	ND		ug/kg	5.9	--	1
1,2-Dibromoethane	ND		ug/kg	4.7	--	1
1,3-Dichloropropane	ND		ug/kg	4.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	--	1
Bromobenzene	ND		ug/kg	5.9	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	4.7	--	1
o-Chlorotoluene	ND		ug/kg	4.7	--	1
p-Chlorotoluene	ND		ug/kg	4.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	--	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
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718045

Project Number: 171521.52 **Report Date:** 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01 Date Collected: 06/01/17 14:30

Client ID: LAGOON NORTH Date Received: 06/01/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	5.9	--	1
Diisopropyl Ether	ND		ug/kg	4.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.7	--	1
1,4-Dioxane	ND		ug/kg	47	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/06/17 03:47
Analyst: BD
Percent Solids: 30%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	--	1
1,1-Dichloroethane	ND		ug/kg	2.0	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	4.6	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	--	1
Tetrachloroethene	ND		ug/kg	1.3	--	1
Chlorobenzene	ND		ug/kg	1.3	--	1
Trichlorofluoromethane	ND		ug/kg	5.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	--	1
Bromodichloromethane	ND		ug/kg	1.3	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	--	1
1,1-Dichloropropene	ND		ug/kg	5.2	--	1
Bromoform	ND		ug/kg	5.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	--	1
Benzene	ND		ug/kg	1.3	--	1
Toluene	ND		ug/kg	2.0	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.2	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	2.6	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1
Trichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718045

Project Number: 171521.52 **Report Date:** 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02 Date Collected: 06/01/17 14:30

Client ID: LAGOON SOUTH Date Received: 06/01/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	2.6	--	1
Xylenes, Total	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	5.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	5.2	--	1
Styrene	ND		ug/kg	2.6	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	ND		ug/kg	47	--	1
Carbon disulfide	ND		ug/kg	5.2	--	1
Methyl ethyl ketone	ND		ug/kg	13	--	1
Methyl isobutyl ketone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Bromochloromethane	ND		ug/kg	5.2	--	1
Tetrahydrofuran	ND		ug/kg	5.2	--	1
2,2-Dichloropropane	ND		ug/kg	6.6	--	1
1,2-Dibromoethane	ND		ug/kg	5.2	--	1
1,3-Dichloropropane	ND		ug/kg	5.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	--	1
Bromobenzene	ND		ug/kg	6.6	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	5.2	--	1
o-Chlorotoluene	ND		ug/kg	5.2	--	1
p-Chlorotoluene	ND		ug/kg	5.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	--	1
Hexachlorobutadiene	ND		ug/kg	5.2	--	1
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.2	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	--	1

Project Name: WYNN EVERETT
Lab Number: L1718045
Project Number: 171521.52
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	6.6	--	1
Diisopropyl Ether	ND		ug/kg	5.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.2	--	1
1,4-Dioxane	ND		ug/kg	52	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/05/17 22:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1010201-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/05/17 22:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1010201-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/05/17 22:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1010201-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/05/17 22:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1010201-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1010201-3 WG1010201-4								
Methylene chloride	94		88		70-130	7		20
1,1-Dichloroethane	98		92		70-130	6		20
Chloroform	99		91		70-130	8		20
Carbon tetrachloride	101		93		70-130	8		20
1,2-Dichloropropane	98		93		70-130	5		20
Dibromochloromethane	99		93		70-130	6		20
1,1,2-Trichloroethane	102		95		70-130	7		20
Tetrachloroethene	104		94		70-130	10		20
Chlorobenzene	101		95		70-130	6		20
Trichlorofluoromethane	98		88		70-130	11		20
1,2-Dichloroethane	92		86		70-130	7		20
1,1,1-Trichloroethane	101		92		70-130	9		20
Bromodichloromethane	97		89		70-130	9		20
trans-1,3-Dichloropropene	101		94		70-130	7		20
cis-1,3-Dichloropropene	97		92		70-130	5		20
1,1-Dichloropropene	99		91		70-130	8		20
Bromoform	104		96		70-130	8		20
1,1,2,2-Tetrachloroethane	98		93		70-130	5		20
Benzene	99		92		70-130	7		20
Toluene	103		96		70-130	7		20
Ethylbenzene	103		95		70-130	8		20
Chloromethane	84		77		70-130	9		20
Bromomethane	92		84		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1010201-3 WG1010201-4								
Vinyl chloride	82		76		70-130	8		20
Chloroethane	84		76		70-130	10		20
1,1-Dichloroethene	98		90		70-130	9		20
trans-1,2-Dichloroethene	98		90		70-130	9		20
Trichloroethene	99		90		70-130	10		20
1,2-Dichlorobenzene	102		96		70-130	6		20
1,3-Dichlorobenzene	104		97		70-130	7		20
1,4-Dichlorobenzene	102		96		70-130	6		20
Methyl tert butyl ether	93		87		70-130	7		20
p/m-Xylene	105		97		70-130	8		20
o-Xylene	104		96		70-130	8		20
cis-1,2-Dichloroethene	99		91		70-130	8		20
Dibromomethane	93		88		70-130	6		20
1,4-Dichlorobutane	102		96		70-130	6		20
1,2,3-Trichloropropane	98		92		70-130	6		20
Styrene	104		97		70-130	7		20
Dichlorodifluoromethane	**57**	Q	**52**	Q	70-130	9		20
Acetone	81		75		70-130	8		20
Carbon disulfide	82		73		70-130	12		20
Methyl ethyl ketone	92		90		70-130	2		20
Methyl isobutyl ketone	96		90		70-130	6		20
2-Hexanone	86		82		70-130	5		20
Ethyl methacrylate	95		90		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1010201-3 WG1010201-4								
Acrylonitrile	100		93		70-130	7		20
Bromochloromethane	96		90		70-130	6		20
Tetrahydrofuran	91		86		70-130	6		20
2,2-Dichloropropane	101		92		70-130	9		20
1,2-Dibromoethane	99		95		70-130	4		20
1,3-Dichloropropane	100		94		70-130	6		20
1,1,1,2-Tetrachloroethane	104		97		70-130	7		20
Bromobenzene	104		95		70-130	9		20
n-Butylbenzene	110		101		70-130	9		20
sec-Butylbenzene	110		101		70-130	9		20
tert-Butylbenzene	107		99		70-130	8		20
o-Chlorotoluene	107		99		70-130	8		20
p-Chlorotoluene	105		97		70-130	8		20
1,2-Dibromo-3-chloropropane	94		89		70-130	5		20
Hexachlorobutadiene	112		106		70-130	6		20
Isopropylbenzene	107		98		70-130	9		20
p-Isopropyltoluene	108		100		70-130	8		20
Naphthalene	99		92		70-130	7		20
n-Propylbenzene	106		98		70-130	8		20
1,2,3-Trichlorobenzene	102		95		70-130	7		20
1,2,4-Trichlorobenzene	102		95		70-130	7		20
1,3,5-Trimethylbenzene	108		100		70-130	8		20
1,2,4-Trimethylbenzene	107		99		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1010201-3 WG1010201-4								
trans-1,4-Dichloro-2-butene	98		93		70-130	5		20
Diethyl ether	95		89		70-130	7		20
Diisopropyl Ether	97		91		70-130	6		20
Ethyl-Tert-Butyl-Ether	96		90		70-130	6		20
Tertiary-Amyl Methyl Ether	95		88		70-130	8		20
1,4-Dioxane	94		84		70-130	11		20
2-Chloroethylvinyl ether	94		87		70-130	8		20
Halothane	100		92		70-130	8		20
Ethyl Acetate	89		83		70-130	7		20
Freon-113	100		91		70-130	9		20
Vinyl acetate	89		84		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		93		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	95		96		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/03/17 03:39
Analyst: RC
Percent Solids: 42%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/02/17 14:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	310	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	390	--	1
Hexachlorobenzene	ND		ug/kg	240	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	350	--	1
2-Chloronaphthalene	ND		ug/kg	390	--	1
1,2-Dichlorobenzene	ND		ug/kg	390	--	1
1,3-Dichlorobenzene	ND		ug/kg	390	--	1
1,4-Dichlorobenzene	ND		ug/kg	390	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	390	--	1
2,4-Dinitrotoluene	ND		ug/kg	390	--	1
2,6-Dinitrotoluene	ND		ug/kg	390	--	1
Azobenzene	ND		ug/kg	390	--	1
Fluoranthene	ND		ug/kg	240	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	390	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	470	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	420	--	1
Hexachlorobutadiene	ND		ug/kg	390	--	1
Hexachloroethane	ND		ug/kg	310	--	1
Isophorone	ND		ug/kg	350	--	1
Naphthalene	ND		ug/kg	390	--	1
Nitrobenzene	ND		ug/kg	350	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	390	--	1
Butyl benzyl phthalate	ND		ug/kg	390	--	1
Di-n-butylphthalate	ND		ug/kg	390	--	1
Di-n-octylphthalate	ND		ug/kg	390	--	1
Diethyl phthalate	ND		ug/kg	390	--	1
Dimethyl phthalate	ND		ug/kg	390	--	1
Benzo(a)anthracene	ND		ug/kg	240	--	1
Benzo(a)pyrene	ND		ug/kg	310	--	1
Benzo(b)fluoranthene	ND		ug/kg	240	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718045

Project Number: 171521.52 **Report Date:** 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01 Date Collected: 06/01/17 14:30

Client ID: LAGOON NORTH Date Received: 06/01/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	240	--	1
Chrysene	ND		ug/kg	240	--	1
Acenaphthylene	ND		ug/kg	310	--	1
Anthracene	ND		ug/kg	240	--	1
Benzo(ghi)perylene	ND		ug/kg	310	--	1
Fluorene	ND		ug/kg	390	--	1
Phenanthrene	ND		ug/kg	240	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	240	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	310	--	1
Pyrene	ND		ug/kg	240	--	1
Aniline	ND		ug/kg	470	--	1
4-Chloroaniline	ND		ug/kg	390	--	1
Dibenzofuran	ND		ug/kg	390	--	1
2-Methylnaphthalene	ND		ug/kg	470	--	1
Acetophenone	ND		ug/kg	390	--	1
2,4,6-Trichlorophenol	ND		ug/kg	240	--	1
2-Chlorophenol	ND		ug/kg	390	--	1
2,4-Dichlorophenol	ND		ug/kg	350	--	1
2,4-Dimethylphenol	ND		ug/kg	390	--	1
2-Nitrophenol	ND		ug/kg	850	--	1
4-Nitrophenol	ND		ug/kg	550	--	1
2,4-Dinitrophenol	ND		ug/kg	1900	--	1
Pentachlorophenol	ND		ug/kg	790	--	1
Phenol	ND		ug/kg	390	--	1
2-Methylphenol	ND		ug/kg	390	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	570	--	1
2,4,5-Trichlorophenol	ND		ug/kg	390	--	1
Pyridine	ND		ug/kg	420	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		30-130
Phenol-d6	47		30-130
Nitrobenzene-d5	44		30-130
2-Fluorobiphenyl	42		30-130
2,4,6-Tribromophenol	51		30-130
4-Terphenyl-d14	36		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/05/17 16:58
Analyst: ALS
Percent Solids: 30%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/03/17 14:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	430	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	540	--	1
Hexachlorobenzene	ND		ug/kg	320	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	490	--	1
2-Chloronaphthalene	ND		ug/kg	540	--	1
1,2-Dichlorobenzene	ND		ug/kg	540	--	1
1,3-Dichlorobenzene	ND		ug/kg	540	--	1
1,4-Dichlorobenzene	ND		ug/kg	540	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	540	--	1
2,4-Dinitrotoluene	ND		ug/kg	540	--	1
2,6-Dinitrotoluene	ND		ug/kg	540	--	1
Azobenzene	ND		ug/kg	540	--	1
Fluoranthene	790		ug/kg	320	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	540	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	650	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	590	--	1
Hexachlorobutadiene	ND		ug/kg	540	--	1
Hexachloroethane	ND		ug/kg	430	--	1
Isophorone	ND		ug/kg	490	--	1
Naphthalene	ND		ug/kg	540	--	1
Nitrobenzene	ND		ug/kg	490	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	540	--	1
Butyl benzyl phthalate	ND		ug/kg	540	--	1
Di-n-butylphthalate	ND		ug/kg	540	--	1
Di-n-octylphthalate	ND		ug/kg	540	--	1
Diethyl phthalate	ND		ug/kg	540	--	1
Dimethyl phthalate	ND		ug/kg	540	--	1
Benzo(a)anthracene	320		ug/kg	320	--	1
Benzo(a)pyrene	ND		ug/kg	430	--	1
Benzo(b)fluoranthene	ND		ug/kg	320	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718045

Project Number: 171521.52 **Report Date:** 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02 Date Collected: 06/01/17 14:30

Client ID: LAGOON SOUTH Date Received: 06/01/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	320	--	1
Chrysene	ND		ug/kg	320	--	1
Acenaphthylene	ND		ug/kg	430	--	1
Anthracene	ND		ug/kg	320	--	1
Benzo(ghi)perylene	ND		ug/kg	430	--	1
Fluorene	ND		ug/kg	540	--	1
Phenanthrene	530		ug/kg	320	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	320	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	430	--	1
Pyrene	670		ug/kg	320	--	1
Aniline	ND		ug/kg	650	--	1
4-Chloroaniline	ND		ug/kg	540	--	1
Dibenzofuran	ND		ug/kg	540	--	1
2-Methylnaphthalene	ND		ug/kg	650	--	1
Acetophenone	ND		ug/kg	540	--	1
2,4,6-Trichlorophenol	ND		ug/kg	320	--	1
2-Chlorophenol	ND		ug/kg	540	--	1
2,4-Dichlorophenol	ND		ug/kg	490	--	1
2,4-Dimethylphenol	ND		ug/kg	540	--	1
2-Nitrophenol	ND		ug/kg	1200	--	1
4-Nitrophenol	ND		ug/kg	760	--	1
2,4-Dinitrophenol	ND		ug/kg	2600	--	1
Pentachlorophenol	ND		ug/kg	1100	--	1
Phenol	ND		ug/kg	540	--	1
2-Methylphenol	ND		ug/kg	540	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	780	--	1
2,4,5-Trichlorophenol	ND		ug/kg	540	--	1
Pyridine	ND		ug/kg	590	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		30-130
Phenol-d6	68		30-130
Nitrobenzene-d5	63		30-130
2-Fluorobiphenyl	66		30-130
2,4,6-Tribromophenol	97		30-130
4-Terphenyl-d14	55		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/02/17 17:30
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 06/02/17 12:09

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1009327-1					
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	140	--
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	170	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	140	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	140	--
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 EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/02/17 17:30
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 06/02/17 12:09

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1009327-1					
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	140	--
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	170	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/02/17 17:30
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 06/02/17 12:09

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1009327-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		30-130
Phenol-d6	63		30-130
Nitrobenzene-d5	62		30-130
2-Fluorobiphenyl	55		30-130
2,4,6-Tribromophenol	53		30-130
4-Terphenyl-d14	58		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/05/17 10:52
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 06/03/17 14:12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 02 Batch: WG1009642-1					
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: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/05/17 10:52
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 06/03/17 14:12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 02 Batch: WG1009642-1					
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	780	--
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: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/05/17 10:52
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 06/03/17 14:12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 02 Batch: WG1009642-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		30-130
Phenol-d6	74		30-130
Nitrobenzene-d5	65		30-130
2-Fluorobiphenyl	71		30-130
2,4,6-Tribromophenol	76		30-130
4-Terphenyl-d14	73		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1009327-2 WG1009327-3								
Acenaphthene	51		56		40-140	9		30
1,2,4-Trichlorobenzene	50		55		40-140	10		30
Hexachlorobenzene	51		57		40-140	11		30
Bis(2-chloroethyl)ether	53		57		40-140	7		30
2-Chloronaphthalene	50		55		40-140	10		30
1,2-Dichlorobenzene	49		53		40-140	8		30
1,3-Dichlorobenzene	49		52		40-140	6		30
1,4-Dichlorobenzene	48		52		40-140	8		30
3,3'-Dichlorobenzidine	**37**	Q	40		40-140	8		30
2,4-Dinitrotoluene	60		65		40-140	8		30
2,6-Dinitrotoluene	58		63		40-140	8		30
Azobenzene	61		68		40-140	11		30
Fluoranthene	51		56		40-140	9		30
4-Bromophenyl phenyl ether	49		54		40-140	10		30
Bis(2-chloroisopropyl)ether	66		71		40-140	7		30
Bis(2-chloroethoxy)methane	57		63		40-140	10		30
Hexachlorobutadiene	45		48		40-140	6		30
Hexachloroethane	54		58		40-140	7		30
Isophorone	61		67		40-140	9		30
Naphthalene	48		53		40-140	10		30
Nitrobenzene	57		62		40-140	8		30
Bis(2-ethylhexyl)phthalate	64		71		40-140	10		30
Butyl benzyl phthalate	62		67		40-140	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1009327-2 WG1009327-3								
Di-n-butylphthalate	61		67		40-140	9		30
Di-n-octylphthalate	63		69		40-140	9		30
Diethyl phthalate	54		60		40-140	11		30
Dimethyl phthalate	54		60		40-140	11		30
Benzo(a)anthracene	50		55		40-140	10		30
Benzo(a)pyrene	56		62		40-140	10		30
Benzo(b)fluoranthene	52		59		40-140	13		30
Benzo(k)fluoranthene	53		56		40-140	6		30
Chrysene	47		52		40-140	10		30
Acenaphthylene	53		58		40-140	9		30
Anthracene	52		58		40-140	11		30
Benzo(ghi)perylene	50		55		40-140	10		30
Fluorene	52		57		40-140	9		30
Phenanthrene	49		54		40-140	10		30
Dibenzo(a,h)anthracene	49		55		40-140	12		30
Indeno(1,2,3-cd)pyrene	44		49		40-140	11		30
Pyrene	51		55		40-140	8		30
Aniline	**36**	Q	**38**	Q	40-140	5		30
4-Chloroaniline	57		61		40-140	7		30
Dibenzofuran	50		55		40-140	10		30
2-Methylnaphthalene	50		55		40-140	10		30
Acetophenone	60		66		40-140	10		30
2,4,6-Trichlorophenol	55		62		30-130	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1009327-2 WG1009327-3								
2-Chlorophenol	54		60		30-130	11		30
2,4-Dichlorophenol	58		64		30-130	10		30
2,4-Dimethylphenol	68		76		30-130	11		30
2-Nitrophenol	58		65		30-130	11		30
4-Nitrophenol	59		65		30-130	10		30
2,4-Dinitrophenol	**29**	Q	**20**	Q	30-130	**37**	Q	30
Pentachlorophenol	44		46		30-130	4		30
Phenol	59		64		30-130	8		30
2-Methylphenol	60		66		30-130	10		30
3-Methylphenol/4-Methylphenol	63		70		30-130	11		30
2,4,5-Trichlorophenol	56		62		30-130	10		30
Pyridine	47		50		30-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		65		30-130
Phenol-d6	62		66		30-130
Nitrobenzene-d5	61		67		30-130
2-Fluorobiphenyl	53		59		30-130
2,4,6-Tribromophenol	52		57		30-130
4-Terphenyl-d14	52		57		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG1009642-2 WG1009642-3								
Acenaphthene	82		86		40-140	5		30
1,2,4-Trichlorobenzene	83		88		40-140	6		30
Hexachlorobenzene	98		108		40-140	10		30
Bis(2-chloroethyl)ether	78		84		40-140	7		30
2-Chloronaphthalene	90		96		40-140	6		30
1,2-Dichlorobenzene	82		82		40-140	0		30
1,3-Dichlorobenzene	78		77		40-140	1		30
1,4-Dichlorobenzene	80		79		40-140	1		30
3,3'-Dichlorobenzidine	72		79		40-140	9		30
2,4-Dinitrotoluene	98		105		40-140	7		30
2,6-Dinitrotoluene	102		108		40-140	6		30
Azobenzene	81		90		40-140	11		30
Fluoranthene	92		98		40-140	6		30
4-Bromophenyl phenyl ether	89		97		40-140	9		30
Bis(2-chloroisopropyl)ether	75		79		40-140	5		30
Bis(2-chloroethoxy)methane	81		90		40-140	11		30
Hexachlorobutadiene	83		85		40-140	2		30
Hexachloroethane	80		78		40-140	3		30
Isophorone	84		91		40-140	8		30
Naphthalene	85		88		40-140	3		30
Nitrobenzene	83		89		40-140	7		30
Bis(2-ethylhexyl)phthalate	93		100		40-140	7		30
Butyl benzyl phthalate	99		103		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG1009642-2 WG1009642-3								
Di-n-butylphthalate	90		98		40-140	9		30
Di-n-octylphthalate	99		105		40-140	6		30
Diethyl phthalate	88		96		40-140	9		30
Dimethyl phthalate	96		102		40-140	6		30
Benzo(a)anthracene	83		89		40-140	7		30
Benzo(a)pyrene	90		93		40-140	3		30
Benzo(b)fluoranthene	93		96		40-140	3		30
Benzo(k)fluoranthene	88		94		40-140	7		30
Chrysene	88		94		40-140	7		30
Acenaphthylene	96		100		40-140	4		30
Anthracene	91		98		40-140	7		30
Benzo(ghi)perylene	84		91		40-140	8		30
Fluorene	89		98		40-140	10		30
Phenanthrene	88		95		40-140	8		30
Dibenzo(a,h)anthracene	83		91		40-140	9		30
Indeno(1,2,3-cd)pyrene	82		90		40-140	9		30
Pyrene	93		99		40-140	6		30
Aniline	61		66		40-140	8		30
4-Chloroaniline	72		75		40-140	4		30
Dibenzofuran	88		95		40-140	8		30
2-Methylnaphthalene	86		90		40-140	5		30
Acetophenone	87		91		40-140	4		30
2,4,6-Trichlorophenol	96		101		30-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG1009642-2 WG1009642-3								
2-Chlorophenol	89		94		30-130	5		30
2,4-Dichlorophenol	95		101		30-130	6		30
2,4-Dimethylphenol	95		103		30-130	8		30
2-Nitrophenol	94		99		30-130	5		30
4-Nitrophenol	100		105		30-130	5		30
2,4-Dinitrophenol	50		54		30-130	8		30
Pentachlorophenol	70		80		30-130	13		30
Phenol	80		88		30-130	10		30
2-Methylphenol	91		97		30-130	6		30
3-Methylphenol/4-Methylphenol	87		92		30-130	6		30
2,4,5-Trichlorophenol	100		109		30-130	9		30
Pyridine	64		59		30-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		85		30-130
Phenol-d6	87		92		30-130
Nitrobenzene-d5	81		82		30-130
2-Fluorobiphenyl	88		91		30-130
2,4,6-Tribromophenol	103		110		30-130
4-Terphenyl-d14	89		93		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/02/17 11:47
Analyst: MEO
Percent Solids: 42%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/01/17 22:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	78200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/02/17 12:20
Analyst: MEO
Percent Solids: 30%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/01/17 22:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	108000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 06/02/17 11:15
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 06/01/17 22:54

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG1009079-1					
TPH	ND		ug/kg	32000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG1009079-2								
TPH	95		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	99				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/06/17 19:52
Analyst: HT
Percent Solids: 42%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/01/17 23:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/02/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	75.8	--	1	A
Aroclor 1221	ND		ug/kg	75.8	--	1	A
Aroclor 1232	ND		ug/kg	75.8	--	1	A
Aroclor 1242	ND		ug/kg	75.8	--	1	A
Aroclor 1248	ND		ug/kg	75.8	--	1	A
Aroclor 1254	164		ug/kg	75.8	--	1	B
Aroclor 1260	83.2		ug/kg	75.8	--	1	B
Aroclor 1262	ND		ug/kg	75.8	--	1	A
Aroclor 1268	ND		ug/kg	75.8	--	1	A
PCBs, Total	247		ug/kg	75.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/06/17 20:04
Analyst: HT
Percent Solids: 30%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/01/17 23:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/02/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	109	--	1	A
Aroclor 1221	ND		ug/kg	109	--	1	A
Aroclor 1232	ND		ug/kg	109	--	1	A
Aroclor 1242	ND		ug/kg	109	--	1	A
Aroclor 1248	ND		ug/kg	109	--	1	A
Aroclor 1254	1600		ug/kg	109	--	1	A
Aroclor 1260	ND		ug/kg	109	--	1	A
Aroclor 1262	ND		ug/kg	109	--	1	A
Aroclor 1268	ND		ug/kg	109	--	1	A
PCBs, Total	1600		ug/kg	109	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 06/04/17 02:38
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 06/01/17 23:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/02/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG1009090-1						
Aroclor 1016	ND		ug/kg	32.8	--	A
Aroclor 1221	ND		ug/kg	32.8	--	A
Aroclor 1232	ND		ug/kg	32.8	--	A
Aroclor 1242	ND		ug/kg	32.8	--	A
Aroclor 1248	ND		ug/kg	32.8	--	A
Aroclor 1254	ND		ug/kg	32.8	--	A
Aroclor 1260	ND		ug/kg	32.8	--	A
Aroclor 1262	ND		ug/kg	32.8	--	A
Aroclor 1268	ND		ug/kg	32.8	--	A
PCBs, Total	ND		ug/kg	32.8	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1009090-2 WG1009090-3									
Aroclor 1016	81		79		40-140	3		30	A
Aroclor 1260	76		76		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		80		30-150	A
Decachlorobiphenyl	71		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		71		30-150	B
Decachlorobiphenyl	80		79		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/02/17 16:25
Analyst: DM
Percent Solids: 42%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/01/17 22:52
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	18.8	--	1	A
Lindane	ND		ug/kg	6.26	--	1	A
Alpha-BHC	ND		ug/kg	7.82	--	1	A
Beta-BHC	ND		ug/kg	18.8	--	1	A
Heptachlor	ND		ug/kg	9.38	--	1	A
Aldrin	ND		ug/kg	18.8	--	1	A
Heptachlor epoxide	ND		ug/kg	35.2	--	1	A
Endrin	ND		ug/kg	7.82	--	1	A
Endrin ketone	ND		ug/kg	18.8	--	1	A
Dieldrin	ND		ug/kg	11.7	--	1	A
4,4'-DDE	ND		ug/kg	18.8	--	1	A
4,4'-DDD	ND		ug/kg	18.8	--	1	A
4,4'-DDT	ND		ug/kg	35.2	--	1	B
Endosulfan I	ND		ug/kg	18.8	--	1	A
Endosulfan II	ND		ug/kg	18.8	--	1	A
Endosulfan sulfate	ND		ug/kg	7.82	--	1	A
Methoxychlor	ND		ug/kg	35.2	--	1	A
Chlordane	ND		ug/kg	152	--	1	A
Hexachlorobenzene	ND		ug/kg	18.8	--	1	A
Toxaphene	ND		ug/kg	352	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	66		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/06/17 21:24
Analyst: SL
Percent Solids: 42%
Methylation Date: 06/06/17 05:11

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/05/17 08:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	7800	--	1	A
MCPA	ND		ug/kg	7800	--	1	A
Dalapon	ND		ug/kg	78	--	1	A
Dicamba	ND		ug/kg	78	--	1	A
Dichloroprop	ND		ug/kg	78	--	1	A
2,4-D	ND		ug/kg	78	--	1	A
2,4-DB	ND		ug/kg	78	--	1	A
2,4,5-T	ND		ug/kg	78	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	78	--	1	A
Dinoseb	ND		ug/kg	78	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	75		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/02/17 16:40
Analyst: DM
Percent Solids: 30%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/01/17 22:52
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	25.8	--	1	A
Lindane	ND		ug/kg	8.61	--	1	A
Alpha-BHC	ND		ug/kg	10.8	--	1	A
Beta-BHC	ND		ug/kg	25.8	--	1	A
Heptachlor	ND		ug/kg	12.9	--	1	A
Aldrin	ND		ug/kg	25.8	--	1	A
Heptachlor epoxide	ND		ug/kg	48.4	--	1	A
Endrin	ND		ug/kg	10.8	--	1	A
Endrin ketone	ND		ug/kg	25.8	--	1	A
Dieldrin	ND	PI	ug/kg	16.1	--	1	B
4,4'-DDE	ND		ug/kg	25.8	--	1	A
4,4'-DDD	ND		ug/kg	25.8	--	1	A
4,4'-DDT	ND	PI	ug/kg	48.4	--	1	A
Endosulfan I	ND		ug/kg	25.8	--	1	A
Endosulfan II	ND	PI	ug/kg	25.8	--	1	A
Endosulfan sulfate	ND		ug/kg	10.8	--	1	A
Methoxychlor	ND		ug/kg	48.4	--	1	A
Chlordane	ND		ug/kg	210	--	1	A
Hexachlorobenzene	ND		ug/kg	25.8	--	1	A
Toxaphene	ND		ug/kg	484	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/06/17 21:44
Analyst: SL
Percent Solids: 30%
Methylation Date: 06/06/17 05:11

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/05/17 08:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	11000	--	1	A
MCPA	ND		ug/kg	11000	--	1	A
Dalapon	ND		ug/kg	110	--	1	A
Dicamba	ND		ug/kg	110	--	1	A
Dichloroprop	ND		ug/kg	110	--	1	A
2,4-D	ND		ug/kg	110	--	1	A
2,4-DB	ND		ug/kg	110	--	1	A
2,4,5-T	ND		ug/kg	110	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	110	--	1	A
Dinoseb	ND		ug/kg	110	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	62		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 06/01/17 12:15
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/31/17 23:40
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-02 Batch: WG1008661-1						
Delta-BHC	ND		ug/kg	7.76	--	A
Lindane	ND		ug/kg	2.58	--	A
Alpha-BHC	ND		ug/kg	3.23	--	A
Beta-BHC	ND		ug/kg	7.76	--	A
Heptachlor	ND		ug/kg	3.88	--	A
Aldrin	ND		ug/kg	7.76	--	A
Heptachlor epoxide	ND		ug/kg	14.5	--	A
Endrin	ND		ug/kg	3.23	--	A
Endrin ketone	ND		ug/kg	7.76	--	A
Dieldrin	ND		ug/kg	4.85	--	A
4,4'-DDE	ND		ug/kg	7.76	--	A
4,4'-DDD	ND		ug/kg	7.76	--	A
4,4'-DDT	ND		ug/kg	14.5	--	A
Endosulfan I	ND		ug/kg	7.76	--	A
Endosulfan II	ND		ug/kg	7.76	--	A
Endosulfan sulfate	ND		ug/kg	3.23	--	A
Methoxychlor	ND		ug/kg	14.5	--	A
Chlordane	ND		ug/kg	63.0	--	A
Hexachlorobenzene	ND		ug/kg	7.76	--	A
Toxaphene	ND		ug/kg	145	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	58		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 06/06/17 16:12
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/05/17 07:49

Methylation Date: 06/06/17 03:32

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-02 Batch: WG1009787-1						
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
Dinoseb	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	78		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1008661-2 WG1008661-3									
Delta-BHC	64		64		40-140	0		30	A
Lindane	64		64		40-140	0		30	A
Alpha-BHC	69		69		40-140	0		30	A
Beta-BHC	62		64		40-140	3		30	A
Heptachlor	66		65		40-140	2		30	A
Aldrin	65		66		40-140	2		30	A
Heptachlor epoxide	62		61		40-140	2		30	A
Endrin	69		69		40-140	0		30	A
Endrin ketone	68		66		40-140	3		30	A
Dieldrin	73		72		40-140	1		30	A
4,4'-DDE	70		70		40-140	0		30	A
4,4'-DDD	64		64		40-140	0		30	A
4,4'-DDT	75		71		40-140	5		30	A
Endosulfan I	66		65		40-140	2		30	A
Endosulfan II	66		66		40-140	0		30	A
Endosulfan sulfate	56		54		40-140	4		30	A
Methoxychlor	70		68		40-140	3		30	A
Hexachlorobenzene	61		60		40-140	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1008661-2 WG1008661-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		63		30-150	B
Decachlorobiphenyl	60		36		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		56		30-150	A
Decachlorobiphenyl	65		57		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1008661-4 WG1008661-5									
Toxaphene	61		59		40-140	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		60		30-150	B
Decachlorobiphenyl	65		55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		56		30-150	A
Decachlorobiphenyl	70		62		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1009787-2 WG1009787-3									
MCPP	121		122		40-140	1		30	A
MCPA	89		89		40-140	0		30	A
Dalapon	77		74		40-140	4		30	A
Dicamba	79		79		40-140	0		30	A
Dichloroprop	111		108		40-140	3		30	A
2,4-D	85		82		40-140	4		30	A
2,4-DB	84		89		40-140	6		30	A
2,4,5-T	82		81		40-140	1		30	A
2,4,5-TP (Silvex)	82		82		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	101		101		30-150	A
DCAA	80		82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

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: WG1009787-2 WG1009787-3									
Dinoseb	**6**	Q	**4**	Q	40-140	**41**	Q	30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	101		101		30-150	A
DCAA	80		82		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 42%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified

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	4.57	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Arsenic, Total	72.8		mg/kg	0.914	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Barium, Total	43.6		mg/kg	0.914	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.457	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.914	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Chromium, Total	21.5		mg/kg	0.914	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Lead, Total	135		mg/kg	4.57	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Mercury, Total	1.42		mg/kg	0.155	--	1	06/02/17 10:00	06/07/17 09:55	EPA 7471B	97,7471B	BV
Nickel, Total	9.65		mg/kg	2.28	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Selenium, Total	ND		mg/kg	4.57	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	0.914	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	4.57	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Vanadium, Total	17.5		mg/kg	0.914	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS
Zinc, Total	228		mg/kg	4.57	--	1	06/05/17 12:00	06/06/17 15:47	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 30%

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified

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	6.45	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Arsenic, Total	128		mg/kg	1.29	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Barium, Total	69.2		mg/kg	1.29	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.645	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Cadmium, Total	1.64		mg/kg	1.29	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Chromium, Total	24.0		mg/kg	1.29	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Lead, Total	313		mg/kg	6.45	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Mercury, Total	6.46		mg/kg	0.214	--	1	06/02/17 10:00	06/07/17 09:57	EPA 7471B	97,7471B	BV
Nickel, Total	15.5		mg/kg	3.22	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Selenium, Total	8.41		mg/kg	6.45	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Silver, Total	ND		mg/kg	1.29	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	6.45	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Vanadium, Total	24.8		mg/kg	1.29	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS
Zinc, Total	394		mg/kg	6.45	--	1	06/05/17 12:00	06/06/17 15:52	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

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: WG1009179-1										
Mercury, Total	ND		mg/kg	0.083	--	1	06/02/17 10:00	06/07/17 09:49	97,7471B	BV

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: WG1009843-1										
Antimony, Total	ND		mg/kg	2.00	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.400	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Barium, Total	ND		mg/kg	0.400	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Chromium, Total	ND		mg/kg	0.400	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Lead, Total	ND		mg/kg	2.00	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Nickel, Total	ND		mg/kg	1.00	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Selenium, Total	ND		mg/kg	2.00	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Silver, Total	ND		mg/kg	0.400	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Thallium, Total	ND		mg/kg	2.00	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.400	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS
Zinc, Total	ND		mg/kg	2.00	--	1	06/05/17 12:00	06/06/17 11:56	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1009179-2 WG1009179-3 SRM Lot Number: D091-540								
Mercury, Total	93		98		72-128	5		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1009843-2 WG1009843-3 SRM Lot Number: D091-540								
Antimony, Total	156		154		1-200	1		30
Arsenic, Total	94		92		80-121	2		30
Barium, Total	86		**83**	Q	84-117	4		30
Beryllium, Total	88		88		83-117	0		30
Cadmium, Total	88		86		83-117	2		30
Chromium, Total	87		87		80-119	0		30
Lead, Total	84		83		82-118	1		30
Nickel, Total	88		87		83-117	1		30
Selenium, Total	93		90		79-121	3		30
Silver, Total	85		84		76-124	1		30
Thallium, Total	86		85		80-121	1		30
Vanadium, Total	85		85		78-122	0		30
Zinc, Total	86		86		82-118	0		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Wet Paste
Particle Size: Fine
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/06/17 15:20	1,1030	JG

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Wet Paste
Particle Size: Fine
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/06/17 15:20	1,1030	JG

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/01/17 14:30
Date Received: 06/01/17
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	1600		umhos/cm	10	--	1	-	06/02/17 06:16	1,9050A	KA
Solids, Total	41.6		%	0.100	NA	1	-	06/02/17 09:11	121,2540G	RI
pH (H)	8.5		SU	-	NA	1	-	06/02/17 03:22	1,9045D	KA
Flash Point	>150		deg F	70	NA	1	-	06/07/17 01:00	1,1010A	SB
Cyanide, Reactive	ND		mg/kg	10	--	1	06/02/17 22:00	06/03/17 00:27	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/02/17 22:00	06/03/17 00:19	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

SAMPLE RESULTS

Lab ID: L1718045-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/01/17 14:30
Date Received: 06/01/17
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	1800		umhos/cm	10	--	1	-	06/02/17 06:16	1,9050A	KA
Solids, Total	30.2		%	0.100	NA	1	-	06/02/17 09:11	121,2540G	RI
pH (H)	8.0		SU	-	NA	1	-	06/02/17 03:22	1,9045D	KA
Flash Point	>150		deg F	70	NA	1	-	06/02/17 09:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	06/02/17 22:00	06/03/17 00:27	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/02/17 22:00	06/03/17 00:19	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718045
Report Date: 06/07/17

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: WG1009414-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	06/02/17 22:00	06/03/17 00:16	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1009418-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	06/02/17 22:00	06/03/17 00:24	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718045

Report Date: 06/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1009122-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1009128-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1009369-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1009414-2								
Sulfide, Reactive	84		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1009418-2								
Cyanide, Reactive	44		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1010509-1								
Flash Point	100		-		96-104	-		

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

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(*)
L1718045-01A	Vial MeOH preserved	A	N/A	N/A	3.0	Y	Absent		MCP-8260HLW-10(14)
L1718045-01B	Vial water preserved	A	N/A	N/A	3.0	Y	Absent	01-JUN-17 23:41	MCP-8260HLW-10(14)
L1718045-01C	Vial water preserved	A	N/A	N/A	3.0	Y	Absent	01-JUN-17 23:41	MCP-8260HLW-10(14)
L1718045-01E	Glass 250ml/8oz unpreserved	A	N/A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1718045-01F	Metals Only-Glass 60mL/2oz unpreserved	A	N/A	N/A	3.0	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)
L1718045-01G	Glass 500ml/16oz unpreserved	A	N/A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1718045-01H	Vial Large Septa unpreserved (4oz)	A	N/A	N/A	3.0	Y	Absent		MCP-8260HLW-10(2)
L1718045-02A	Vial MeOH preserved	A	N/A	N/A	3.0	Y	Absent		MCP-8260HLW-10(14)
L1718045-02B	Vial water preserved	A	N/A	N/A	3.0	Y	Absent	01-JUN-17 23:41	MCP-8260HLW-10(14)
L1718045-02C	Vial water preserved	A	N/A	N/A	3.0	Y	Absent	01-JUN-17 23:41	MCP-8260HLW-10(14)
L1718045-02E	Glass 250ml/8oz unpreserved	A	N/A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718045
Report Date: 06/07/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1718045-02F	Metals Only-Glass 60mL/2oz unpreserved	A	N/A	N/A	3.0	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)
L1718045-02G	Glass 500ml/16oz unpreserved	A	N/A	N/A	3.0	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1718045-02H	Vial Large Septa unpreserved (4oz)	A	N/A	N/A	3.0	Y	Absent		MCP-8260HLW-10(2)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1718045
Project Number:	171521.52	**Report Date:**	06/07/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1718045
Project Number:	171521.52	**Report Date:**	06/07/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1718045
Project Number:	171521.52	**Report Date:**	06/07/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 6/2/17

CHAIN OF CUSTODY

PAGE DD OF

Date Rec'd in Lab: 6/1/17

ALPHA Job #: L1718045

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193

Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: Wynn Boston Harbor

WYNN EVERETT

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: 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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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 ignt	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						
18045-01	Lagoon North	6/1/17	14:30	Sludge	LFT	☑	☑	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	
02	Lagoon South	6/1/17	14:30	Sludge	LFT	☑	☑	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐

CHAIN OF CUSTODY

PAGE DD OF

Date Rec'd in Lab: 6/1/17

ALPHA Job #: L1718045

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:

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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)						
18045 -01	Lagoon North	6/1/17	14:30	Sludge	LFT	☑	☑	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	
02	Lagoon South	6/1/17	14:30	Sludge	LFT	☑	☑	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
Lucas Taylor	6/1/17 15:37		6/1/17 1537
for APC	6/1/17 1904		6/1/17 1904

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1718045
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1010201-5	**Lab File ID**	: V11170605N06
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 06/05/17 22:14

Client Sample No.	Lab Sample ID	Analysis Date
WG1010201-3LCS	WG1010201-3	06/05/17 20:06
WG1010201-4LCSD	WG1010201-4	06/05/17 20:32
LAGOON NORTH	L1718045-01	06/06/17 03:21
LAGOON SOUTH	L1718045-02	06/06/17 03:47

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1718045	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/05/17 20:06	
Lab File ID	: V11170605N01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1010201-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	75	0
Dichlorodifluoromethane	0.322	0.184	-	42.9*	20	42	0
Chloromethane	0.417	0.351	-	15.8	20	64	0
Vinyl chloride	0.349	0.287	-	17.8	20	62	0
Bromomethane	20	18.349	-	8.3	20	64	0
Chloroethane	0.2	0.168	-	16	20	60	0
Trichlorofluoromethane	0.406	0.399	-	1.7	20	73	0
Ethyl ether	0.164	0.155	-	5.5	20	73	0
1,1-Dichloroethene	0.232	0.228	-	1.7	20	75	0
Carbon disulfide	20	16.312	-	18.4	20	62	0
Freon-113	0.209	0.209	-	0	20	74	0
Acrolein	20	15.325	-	23.4*	20	63	0
Methylene chloride	0.307	0.29	-	5.5	20	74	0
Acetone	20	16.224	-	18.9	20	60	0
trans-1,2-Dichloroethene	0.272	0.268	-	1.5	20	75	-.01
Methyl acetate	0.193	0.179	-	7.3	20	71	0
Methyl tert-butyl ether	0.851	0.792	-	6.9	20	72	0
tert-Butyl alcohol	0.031	0.026	-	16.1	20	62	-.01
Diisopropyl ether	1.164	1.132	-	2.7	20	74	0
1,1-Dichloroethane	0.588	0.578	-	1.7	20	75	0
Halothane	0.184	0.184	-	0	20	75	-.01
Acrylonitrile	0.098	0.097	-	1	20	74	-.01
Ethyl tert-butyl ether	1.064	1.022	-	3.9	20	74	-.01
Vinyl acetate	0.773	0.688	-	11	20	68	-.01
cis-1,2-Dichloroethene	0.308	0.305	-	1	20	76	0
2,2-Dichloropropane	0.454	0.46	-	-1.3	20	77	-.01
Bromochloromethane	0.131	0.125	-	4.6	20	71	0
Cyclohexane	0.532	0.541	-	-1.7	20	77	-.01
Chloroform	0.529	0.523	-	1.1	20	76	-.01
Ethyl acetate	0.303	0.269	-	11.2	20	69	-.01
Carbon tetrachloride	0.369	0.373	-	-1.1	20	77	0
Tetrahydrofuran	0.105	0.096	-	8.6	20	67	-.01
Dibromofluoromethane	0.243	0.23	-	5.3	20	71	-.01
1,1,1-Trichloroethane	0.449	0.453	-	-0.9	20	76	-.01
2-Butanone	0.121	0.112	-	7.4	20	66	-.01
1,1-Dichloropropene	0.386	0.383	-	0.8	20	74	-.01
Benzene	1.185	1.175	-	0.8	20	76	0
tert-Amyl methyl ether	0.823	0.785	-	4.6	20	73	-.01
1,2-Dichloroethane-d4	0.291	0.269	-	7.6	20	70	-.01
1,2-Dichloroethane	0.445	0.408	-	8.3	20	70	-.01
Methyl cyclohexane	0.426	0.426	-	0	20	75	-.01
Trichloroethene	0.294	0.291	-	1	20	76	-.01
Dibromomethane	0.17	0.159	-	6.5	20	72	0
1,2-Dichloropropane	0.338	0.33	-	2.4	20	75	-.01
2-Chloroethyl vinyl ether	0.156	0.146	-	6.4	20	70	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1718045	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/05/17 20:06	
Lab File ID	: V11170605N01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1010201-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.405	-	3.3	20	74	-.01
1,4-Dioxane	0.0025	0.00236	-	5.6	20	73	-.01
cis-1,3-Dichloropropene	0.504	0.491	-	2.6	20	75	-.01
Chlorobenzene-d5	1	1	-	0	20	72	-.01
Toluene-d8	1.317	1.342	-	-1.9	20	73	-.01
Toluene	0.945	0.975	-	-3.2	20	76	-.01
4-Methyl-2-pentanone	0.134	0.128	-	4.5	20	67	0
Tetrachloroethene	0.369	0.383	-	-3.8	20	74	0
trans-1,3-Dichloropropene	0.573	0.581	-	-1.4	20	76	-.01
Ethyl methacrylate	0.46	0.438	-	4.8	20	71	0
1,1,2-Trichloroethane	0.272	0.276	-	-1.5	20	74	0
Chlorodibromomethane	0.368	0.363	-	1.4	20	73	-.01
1,3-Dichloropropane	0.572	0.574	-	-0.3	20	73	0
1,2-Dibromoethane	0.299	0.296	-	1	20	72	-.01
2-Hexanone	0.251	0.215	-	14.3	20	63	0
Chlorobenzene	1.019	1.035	-	-1.6	20	74	0
Ethylbenzene	1.803	1.863	-	-3.3	20	76	-.01
1,1,1,2-Tetrachloroethane	0.36	0.374	-	-3.9	20	76	0
p/m Xylene	0.665	0.697	-	-4.8	20	76	0
o Xylene	0.64	0.663	-	-3.6	20	76	-.01
Styrene	1.085	1.131	-	-4.2	20	76	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	70	0
Bromoform	0.436	0.455	-	-4.4	20	76	0
Isopropylbenzene	3.219	3.443	-	-7	20	76	0
4-Bromofluorobenzene	0.989	0.992	-	-0.3	20	71	-.01
Bromobenzene	0.796	0.83	-	-4.3	20	76	0
n-Propylbenzene	4.022	4.285	-	-6.5	20	77	0
1,4-Dichlorobutane	1.308	1.337	-	-2.2	20	74	0
1,1,2,2-Tetrachloroethane	0.783	0.77	-	1.7	20	70	0
4-Ethyltoluene	3.218	3.438	-	-6.8	20	76	0
2-Chlorotoluene	2.804	3.001	-	-7	20	77	0
1,3,5-Trimethylbenzene	2.77	2.983	-	-7.7	20	77	0
1,2,3-Trichloropropane	0.639	0.629	-	1.6	20	71	0
trans-1,4-Dichloro-2-buten	0.258	0.252	-	2.3	20	68	0
4-Chlorotoluene	2.539	2.676	-	-5.4	20	76	0
tert-Butylbenzene	2.25	2.415	-	-7.3	20	76	0
1,2,4-Trimethylbenzene	2.819	3.022	-	-7.2	20	77	0
sec-Butylbenzene	3.481	3.82	-	-9.7	20	78	0
p-Isopropyltoluene	2.911	3.158	-	-8.5	20	77	0
1,3-Dichlorobenzene	1.577	1.64	-	-4	20	76	0
1,4-Dichlorobenzene	1.611	1.651	-	-2.5	20	75	0
p-Diethylbenzene	1.735	1.858	-	-7.1	20	77	0
n-Butylbenzene	2.967	3.254	-	-9.7	20	77	0
1,2-Dichlorobenzene	1.481	1.518	-	-2.5	20	75	0
1,2,4,5-Tetramethylbenzene	2.795	2.886	-	-3.3	20	75	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1718045	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 06/05/17 20:06	
Lab File ID	: V11170605N01	**Init. Calib. Date(s)**	: 05/01/17	05/01/17
Sample No	: WG1010201-2	**Init. Calib. Times**	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.113	0.106	-	6.2	20	70	0
1,3,5-Trichlorobenzene	1.183	1.245	-	-5.2	20	77	0
Hexachlorobutadiene	0.57	0.638	-	-11.9	20	81	0
1,2,4-Trichlorobenzene	1.086	1.11	-	-2.2	20	75	0
Naphthalene	2.33	2.303	-	1.2	20	72	0
1,2,3-Trichlorobenzene	0.992	1.01	-	-1.8	20	75	0

*** Value outside of QC limits.**

I:\Pest11\170602b\11170602b-01.d

Data File Name	**11170602b-01.d**
Data File Path	**I:\Pest11\170602b**
Operator	**PEST11:keg**
Date Acquired	**6/2/2017 12:32**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170602b01,42ee,,c**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.87	742365728.1	% Breakdown
4,4'-DDE	4.21	4438639.791	
4,4'-DDD	4.67	11313227.58	2.08%
Endrin	4.61	458193267.8	% Breakdown
Endrin Aldehyde	5.07	4623589.814	
Endrin Ketone	5.57	10981097.7	3.29%
4,4'-DDT #2	5.48	1072936463	% Breakdown
4,4'-DDE #2	4.84	4678088	
4,4'-DDD #2	5.26	14434931.67	1.75%
Endrin #2	5.19	652406361.4	% Breakdown
Endrin Aldehyde #2	5.58	5308726.489	
Endrin Ketone #2	6.14	13558744.86	2.81%

######### Data File Path **I:\Pest17\150918**

L1718045-01,02

Data File Name	**11170601a-01.d**
Data File Path	**I:\Pest11\170601a**
Operator	**PEST11:keg**
Date Acquired	**6/1/2017 9:33**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170601a01,42ee,,c**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.87	787927037.4	% Breakdown
4,4'-DDE	4.21	5444948.441	
4,4'-DDD	4.67	28829662.35	4.17%
Endrin	4.61	515936024.6	% Breakdown
Endrin Aldehyde	5.08	3477161.759	
Endrin Ketone	5.57	22845310.58	4.85%
4,4'-DDT #2	5.48	1229242132	% Breakdown
4,4'-DDE #2	4.84	6695664.267	
4,4'-DDD #2	5.26	39197495.4	3.60%
Endrin #2	5.20	801884356.6	% Breakdown
Endrin Aldehyde #2	5.58	6371427.334	
Endrin Ketone #2	6.13	24425915.6	3.70%

######### Data File Path **I:\Pest17\150918**

WG1008661-1,2,3

ANALYTICAL REPORT

Lab Number:	L1718412
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:	06/09/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1718412
Report Date: 06/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1718412-01	UTILITY SPOILS STOCKPILE (NORTH)	SOIL	1 HORIZON WAY, EVERETT, MA	06/05/17 11:00	06/05/17
L1718412-02	UTILITY SPOILS STOCKPILE (SOUTH)	SOIL	1 HORIZON WAY, EVERETT, MA	06/05/17 11:15	06/05/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

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: L1718412
Report Date: 06/09/17

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:** L1718412
Project Number: 171521.52 **Report Date:** 06/09/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1718412-01, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0023), as well as the average response factor for acetone and 1,4-dioxane.

The initial calibration, associated with L1718412-02, did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0919) and 1,4-dioxane (0.0024), as well as the average response factor for acetone and 1,4-dioxane. The initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (139%), but within overall method criteria.

The continuing calibration standards, associated with L1718412-01 and -02, 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.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

L1718412-01: 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:

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Case Narrative (continued)

L1718412-01: One or more of the target analytes did not achieve the requested CAM reporting limits.
In reference to question H:
L1718412-01: 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.

Metals
In reference to question H:
The WG1010451-3 LCSD recovery, associated with L1718412-01 and -02, is outside the acceptance criteria for barium (80%). Re-analysis of the LCSD yielded an unacceptable recovery of 81%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/09/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/08/17 10:46
Analyst: JC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.0	--	1
Carbon tetrachloride	ND		ug/kg	0.68	--	1
1,2-Dichloropropane	ND		ug/kg	2.4	--	1
Dibromochloromethane	ND		ug/kg	0.68	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	ND		ug/kg	0.68	--	1
Chlorobenzene	ND		ug/kg	0.68	--	1
Trichlorofluoromethane	2.8		ug/kg	2.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.68	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	--	1
Bromodichloromethane	ND		ug/kg	0.68	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.68	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	--	1
1,1-Dichloropropene	ND		ug/kg	2.7	--	1
Bromoform	ND		ug/kg	2.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	--	1
Benzene	ND		ug/kg	0.68	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	0.68	--	1
Chloromethane	ND		ug/kg	2.7	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.68	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
Trichloroethene	ND		ug/kg	0.68	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718412

Project Number: 171521.52 **Report Date:** 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01 Date Collected: 06/05/17 11:00

Client ID: UTILITY SPOILS STOCKPILE (NORTH) Date Received: 06/05/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
Xylenes, Total	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.68	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.68	--	1
Dibromomethane	ND		ug/kg	2.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	6.8	--	1
Acetone	ND		ug/kg	24	--	1
Carbon disulfide	5.6		ug/kg	2.7	--	1
Methyl ethyl ketone	ND		ug/kg	6.8	--	1
Methyl isobutyl ketone	ND		ug/kg	6.8	--	1
2-Hexanone	ND		ug/kg	6.8	--	1
Bromochloromethane	ND		ug/kg	2.7	--	1
Tetrahydrofuran	ND		ug/kg	2.7	--	1
2,2-Dichloropropane	ND		ug/kg	3.4	--	1
1,2-Dibromoethane	ND		ug/kg	2.7	--	1
1,3-Dichloropropane	ND		ug/kg	2.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	--	1
Bromobenzene	ND		ug/kg	3.4	--	1
n-Butylbenzene	ND		ug/kg	0.68	--	1
sec-Butylbenzene	ND		ug/kg	0.68	--	1
tert-Butylbenzene	ND		ug/kg	2.7	--	1
o-Chlorotoluene	ND		ug/kg	2.7	--	1
p-Chlorotoluene	ND		ug/kg	2.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	--	1
Hexachlorobutadiene	ND		ug/kg	2.7	--	1
Isopropylbenzene	ND		ug/kg	0.68	--	1
p-Isopropyltoluene	ND		ug/kg	0.68	--	1
Naphthalene	ND		ug/kg	2.7	--	1
n-Propylbenzene	ND		ug/kg	0.68	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718412

Project Number: 171521.52 **Report Date:** 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01 Date Collected: 06/05/17 11:00

Client ID: UTILITY SPOILS STOCKPILE (NORTH) Date Received: 06/05/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.4	--	1
Diisopropyl Ether	ND		ug/kg	2.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.7	--	1
1,4-Dioxane	ND		ug/kg	27	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/07/17 18:53
Analyst: CBN
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.89	--	1
Chloroform	ND		ug/kg	0.89	--	1
Carbon tetrachloride	ND		ug/kg	0.59	--	1
1,2-Dichloropropane	ND		ug/kg	2.1	--	1
Dibromochloromethane	ND		ug/kg	0.59	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.89	--	1
Tetrachloroethene	ND		ug/kg	0.59	--	1
Chlorobenzene	ND		ug/kg	0.59	--	1
Trichlorofluoromethane	ND		ug/kg	2.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.59	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	--	1
Bromodichloromethane	ND		ug/kg	0.59	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.59	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	--	1
1,1-Dichloropropene	ND		ug/kg	2.4	--	1
Bromoform	ND		ug/kg	2.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	--	1
Benzene	ND		ug/kg	0.59	--	1
Toluene	ND		ug/kg	0.89	--	1
Ethylbenzene	ND		ug/kg	0.59	--	1
Chloromethane	ND		ug/kg	2.4	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.59	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.89	--	1
Trichloroethene	ND		ug/kg	0.59	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718412

Project Number: 171521.52 **Report Date:** 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02 Date Collected: 06/05/17 11:15

Client ID: UTILITY SPOILS STOCKPILE (SOUTH) Date Received: 06/05/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.59	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.59	--	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	5.9	--	1
Acetone	ND		ug/kg	21	--	1
Carbon disulfide	ND		ug/kg	2.4	--	1
Methyl ethyl ketone	ND		ug/kg	5.9	--	1
Methyl isobutyl ketone	ND		ug/kg	5.9	--	1
2-Hexanone	ND		ug/kg	5.9	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	2.4	--	1
2,2-Dichloropropane	ND		ug/kg	3.0	--	1
1,2-Dibromoethane	ND		ug/kg	2.4	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	--	1
Bromobenzene	ND		ug/kg	3.0	--	1
n-Butylbenzene	ND		ug/kg	0.59	--	1
sec-Butylbenzene	ND		ug/kg	0.59	--	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	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	2.4	--	1
Isopropylbenzene	ND		ug/kg	0.59	--	1
p-Isopropyltoluene	ND		ug/kg	0.59	--	1
Naphthalene	ND		ug/kg	2.4	--	1
n-Propylbenzene	ND		ug/kg	0.59	--	1
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

Project Name: WYNN EVERETT **Lab Number:** L1718412

Project Number: 171521.52 **Report Date:** 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02 Date Collected: 06/05/17 11:15

Client ID: UTILITY SPOILS STOCKPILE (SOUTH) Date Received: 06/05/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.0	--	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	24	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/07/17 17:34
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1011021-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/07/17 17:34
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1011021-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/07/17 17:34
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1011021-5					
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/08/17 08:56
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1011172-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/08/17 08:56
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1011172-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/08/17 08:56
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1011172-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/08/17 08:56
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1011172-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1011021-3 WG1011021-4								
Methylene chloride	105		95		70-130	10		20
1,1-Dichloroethane	112		107		70-130	5		20
Chloroform	112		106		70-130	6		20
Carbon tetrachloride	**135**	Q	123		70-130	9		20
1,2-Dichloropropane	116		100		70-130	15		20
Dibromochloromethane	104		98		70-130	6		20
1,1,2-Trichloroethane	97		90		70-130	7		20
Tetrachloroethene	104		97		70-130	7		20
Chlorobenzene	100		93		70-130	7		20
Trichlorofluoromethane	**138**	Q	125		70-130	10		20
1,2-Dichloroethane	128		119		70-130	7		20
1,1,1-Trichloroethane	127		117		70-130	8		20
Bromodichloromethane	118		109		70-130	8		20
trans-1,3-Dichloropropene	107		99		70-130	8		20
cis-1,3-Dichloropropene	116		106		70-130	9		20
1,1-Dichloropropene	115		102		70-130	12		20
Bromoform	98		94		70-130	4		20
1,1,2,2-Tetrachloroethane	90		88		70-130	2		20
Benzene	105		94		70-130	11		20
Toluene	101		94		70-130	7		20
Ethylbenzene	102		95		70-130	7		20
Chloromethane	**135**	Q	126		70-130	7		20
Bromomethane	110		105		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1011021-3 WG1011021-4								
Vinyl chloride	**135**	Q	124		70-130	8		20
Chloroethane	111		101		70-130	9		20
1,1-Dichloroethene	99		102		70-130	3		20
trans-1,2-Dichloroethene	110		99		70-130	11		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	98		90		70-130	9		20
1,3-Dichlorobenzene	96		90		70-130	6		20
1,4-Dichlorobenzene	95		89		70-130	7		20
Methyl tert butyl ether	120		106		70-130	12		20
p/m-Xylene	101		94		70-130	7		20
o-Xylene	102		93		70-130	9		20
cis-1,2-Dichloroethene	102		96		70-130	6		20
Dibromomethane	111		99		70-130	11		20
1,2,3-Trichloropropane	100		93		70-130	7		20
Styrene	98		93		70-130	5		20
Dichlorodifluoromethane	**143**	Q	**132**	Q	70-130	8		20
Acetone	**145**	Q	121		70-130	18		20
Carbon disulfide	87		130		70-130	**40**	Q	20
Methyl ethyl ketone	**140**	Q	126		70-130	11		20
Methyl isobutyl ketone	102		99		70-130	3		20
2-Hexanone	119		108		70-130	10		20
Bromochloromethane	103		98		70-130	5		20
Tetrahydrofuran	118		113		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1011021-3 WG1011021-4								
2,2-Dichloropropane	125		117		70-130	7		20
1,2-Dibromoethane	98		91		70-130	7		20
1,3-Dichloropropane	99		94		70-130	5		20
1,1,1,2-Tetrachloroethane	103		96		70-130	7		20
Bromobenzene	97		89		70-130	9		20
n-Butylbenzene	105		96		70-130	9		20
sec-Butylbenzene	103		98		70-130	5		20
tert-Butylbenzene	104		97		70-130	7		20
o-Chlorotoluene	100		92		70-130	8		20
p-Chlorotoluene	102		93		70-130	9		20
1,2-Dibromo-3-chloropropane	91		89		70-130	2		20
Hexachlorobutadiene	102		99		70-130	3		20
Isopropylbenzene	104		95		70-130	9		20
p-Isopropyltoluene	107		100		70-130	7		20
Naphthalene	93		90		70-130	3		20
n-Propylbenzene	101		95		70-130	6		20
1,2,3-Trichlorobenzene	95		92		70-130	3		20
1,2,4-Trichlorobenzene	96		93		70-130	3		20
1,3,5-Trimethylbenzene	104		97		70-130	7		20
1,2,4-Trimethylbenzene	101		94		70-130	7		20
Diethyl ether	100		94		70-130	6		20
Diisopropyl Ether	120		120		70-130	0		20
Ethyl-Tert-Butyl-Ether	114		111		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1011021-3 WG1011021-4								
Tertiary-Amyl Methyl Ether	108		98		70-130	10		20
1,4-Dioxane	111		110		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	119		119		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	99		104		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

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: WG1011172-3 WG1011172-4								
Methylene chloride	98		97		70-130	1		20
1,1-Dichloroethane	97		96		70-130	1		20
Chloroform	97		95		70-130	2		20
Carbon tetrachloride	**67**	Q	**67**	Q	70-130	0		20
1,2-Dichloropropane	98		98		70-130	0		20
Dibromochloromethane	78		82		70-130	5		20
1,1,2-Trichloroethane	104		105		70-130	1		20
Tetrachloroethene	102		101		70-130	1		20
Chlorobenzene	102		102		70-130	0		20
Trichlorofluoromethane	110		106		70-130	4		20
1,2-Dichloroethane	96		98		70-130	2		20
1,1,1-Trichloroethane	93		92		70-130	1		20
Bromodichloromethane	88		90		70-130	2		20
trans-1,3-Dichloropropene	91		95		70-130	4		20
cis-1,3-Dichloropropene	93		92		70-130	1		20
1,1-Dichloropropene	100		99		70-130	1		20
Bromoform	**61**	Q	**66**	Q	70-130	8		20
1,1,2,2-Tetrachloroethane	105		105		70-130	0		20
Benzene	98		97		70-130	1		20
Toluene	101		101		70-130	0		20
Ethylbenzene	104		103		70-130	1		20
Chloromethane	89		88		70-130	1		20
Bromomethane	85		88		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

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: WG1011172-3 WG1011172-4								
Vinyl chloride	102		101		70-130	1		20
Chloroethane	101		100		70-130	1		20
1,1-Dichloroethene	102		119		70-130	15		20
trans-1,2-Dichloroethene	98		96		70-130	2		20
Trichloroethene	98		100		70-130	2		20
1,2-Dichlorobenzene	103		102		70-130	1		20
1,3-Dichlorobenzene	104		101		70-130	3		20
1,4-Dichlorobenzene	103		100		70-130	3		20
Methyl tert butyl ether	96		97		70-130	1		20
p/m-Xylene	105		104		70-130	1		20
o-Xylene	105		103		70-130	2		20
cis-1,2-Dichloroethene	96		95		70-130	1		20
Dibromomethane	96		97		70-130	1		20
1,4-Dichlorobutane	102		103		70-130	1		20
1,2,3-Trichloropropane	102		106		70-130	4		20
Styrene	104		103		70-130	1		20
Dichlorodifluoromethane	100		98		70-130	2		20
Acetone	92		95		70-130	3		20
Carbon disulfide	86		100		70-130	15		20
Methyl ethyl ketone	86		91		70-130	6		20
Methyl isobutyl ketone	92		95		70-130	3		20
2-Hexanone	99		94		70-130	5		20
Ethyl methacrylate	89		92		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

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: WG1011172-3 WG1011172-4								
Acrylonitrile	94		96		70-130	2		20
Bromochloromethane	97		98		70-130	1		20
Tetrahydrofuran	96		102		70-130	6		20
2,2-Dichloropropane	88		88		70-130	0		20
1,2-Dibromoethane	99		101		70-130	2		20
1,3-Dichloropropane	102		104		70-130	2		20
1,1,1,2-Tetrachloroethane	82		84		70-130	2		20
Bromobenzene	102		100		70-130	2		20
n-Butylbenzene	107		103		70-130	4		20
sec-Butylbenzene	107		104		70-130	3		20
tert-Butylbenzene	105		103		70-130	2		20
o-Chlorotoluene	94		90		70-130	4		20
p-Chlorotoluene	104		103		70-130	1		20
1,2-Dibromo-3-chloropropane	74		78		70-130	5		20
Hexachlorobutadiene	99		94		70-130	5		20
Isopropylbenzene	106		103		70-130	3		20
p-Isopropyltoluene	106		103		70-130	3		20
Naphthalene	98		100		70-130	2		20
n-Propylbenzene	107		103		70-130	4		20
1,2,3-Trichlorobenzene	98		96		70-130	2		20
1,2,4-Trichlorobenzene	100		97		70-130	3		20
1,3,5-Trimethylbenzene	106		102		70-130	4		20
1,2,4-Trimethylbenzene	106		102		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

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: WG1011172-3 WG1011172-4								
trans-1,4-Dichloro-2-butene	84		86		70-130	2		20
Diethyl ether	102		100		70-130	2		20
Diisopropyl Ether	94		94		70-130	0		20
Ethyl-Tert-Butyl-Ether	93		94		70-130	1		20
Tertiary-Amyl Methyl Ether	94		94		70-130	0		20
1,4-Dioxane	92		99		70-130	7		20
2-Chloroethylvinyl ether	110		117		70-130	6		20
Halothane	96		94		70-130	2		20
Ethyl Acetate	89		94		70-130	5		20
Freon-113	109		125		70-130	14		20
Vinyl acetate	80		83		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	97		96		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/08/17 03:41
Analyst: RC
Percent Solids: 76%

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 01:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	500		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	240		ug/kg	130	--	1
Benzo(a)pyrene	200		ug/kg	170	--	1
Benzo(b)fluoranthene	260		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718412

Project Number: 171521.52 **Report Date:** 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01 Date Collected: 06/05/17 11:00

Client ID: UTILITY SPOILS STOCKPILE (NORTH) Date Received: 06/05/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	240		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	220	--	1
Phenanthrene	340		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	--	1
Pyrene	430		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	470	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	430	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		30-130
Phenol-d6	55		30-130
Nitrobenzene-d5	76		30-130
2-Fluorobiphenyl	43		30-130
2,4,6-Tribromophenol	55		30-130
4-Terphenyl-d14	36		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/08/17 04:06
Analyst: RC
Percent Solids: 81%

Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 01:09

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	570		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	310		ug/kg	120	--	1
Benzo(a)pyrene	240		ug/kg	160	--	1
Benzo(b)fluoranthene	410		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1718412

Project Number: 171521.52 **Report Date:** 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02 Date Collected: 06/05/17 11:15

Client ID: UTILITY SPOILS STOCKPILE (SOUTH) Date Received: 06/05/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	130		ug/kg	120	--	1
Chrysene	350		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	120		ug/kg	120	--	1
Benzo(ghi)perylene	170		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	400		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	160	--	1
Pyrene	480		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	970	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		30-130
Phenol-d6	74		30-130
Nitrobenzene-d5	101		30-130
2-Fluorobiphenyl	58		30-130
2,4,6-Tribromophenol	74		30-130
4-Terphenyl-d14	47		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/07/17 16:46
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/07/17 01:09

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1010517-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/07/17 16:46
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/07/17 01:09

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1010517-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/07/17 16:46
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/07/17 01:09

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1010517-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	76		30-130
2-Fluorobiphenyl	75		30-130
2,4,6-Tribromophenol	94		30-130
4-Terphenyl-d14	88		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1010517-2 WG1010517-3								
Acenaphthene	65		74		40-140	13		30
1,2,4-Trichlorobenzene	66		79		40-140	18		30
Hexachlorobenzene	75		88		40-140	16		30
Bis(2-chloroethyl)ether	64		76		40-140	17		30
2-Chloronaphthalene	72		79		40-140	9		30
1,2-Dichlorobenzene	62		72		40-140	15		30
1,3-Dichlorobenzene	59		71		40-140	18		30
1,4-Dichlorobenzene	61		73		40-140	18		30
3,3'-Dichlorobenzidine	55		66		40-140	18		30
2,4-Dinitrotoluene	71		84		40-140	17		30
2,6-Dinitrotoluene	73		81		40-140	10		30
Azobenzene	66		76		40-140	14		30
Fluoranthene	68		79		40-140	15		30
4-Bromophenyl phenyl ether	77		85		40-140	10		30
Bis(2-chloroisopropyl)ether	55		64		40-140	15		30
Bis(2-chloroethoxy)methane	66		78		40-140	17		30
Hexachlorobutadiene	74		80		40-140	8		30
Hexachloroethane	64		75		40-140	16		30
Isophorone	68		81		40-140	17		30
Naphthalene	68		78		40-140	14		30
Nitrobenzene	75		85		40-140	13		30
Bis(2-ethylhexyl)phthalate	64		72		40-140	12		30
Butyl benzyl phthalate	67		78		40-140	15		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1010517-2 WG1010517-3								
Di-n-butylphthalate	63		72		40-140	13		30
Di-n-octylphthalate	66		76		40-140	14		30
Diethyl phthalate	65		73		40-140	12		30
Dimethyl phthalate	72		80		40-140	11		30
Benzo(a)anthracene	65		76		40-140	16		30
Benzo(a)pyrene	70		87		40-140	22		30
Benzo(b)fluoranthene	69		84		40-140	20		30
Benzo(k)fluoranthene	70		82		40-140	16		30
Chrysene	65		76		40-140	16		30
Acenaphthylene	70		79		40-140	12		30
Anthracene	65		75		40-140	14		30
Benzo(ghi)perylene	69		81		40-140	16		30
Fluorene	66		76		40-140	14		30
Phenanthrene	64		75		40-140	16		30
Dibenzo(a,h)anthracene	68		81		40-140	17		30
Indeno(1,2,3-cd)pyrene	70		84		40-140	18		30
Pyrene	66		79		40-140	18		30
Aniline	45		56		40-140	22		30
4-Chloroaniline	66		72		40-140	9		30
Dibenzofuran	66		77		40-140	15		30
2-Methylnaphthalene	68		76		40-140	11		30
Acetophenone	73		85		40-140	15		30
2,4,6-Trichlorophenol	81		89		30-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1010517-2 WG1010517-3								
2-Chlorophenol	70		82		30-130	16		30
2,4-Dichlorophenol	72		85		30-130	17		30
2,4-Dimethylphenol	77		89		30-130	14		30
2-Nitrophenol	76		92		30-130	19		30
4-Nitrophenol	73		87		30-130	18		30
2,4-Dinitrophenol	51		70		30-130	**31**	Q	30
Pentachlorophenol	48		64		30-130	29		30
Phenol	62		72		30-130	15		30
2-Methylphenol	74		84		30-130	13		30
3-Methylphenol/4-Methylphenol	75		90		30-130	18		30
2,4,5-Trichlorophenol	84		88		30-130	5		30
Pyridine	54		64		30-130	17		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		79		30-130
Phenol-d6	73		85		30-130
Nitrobenzene-d5	79		88		30-130
2-Fluorobiphenyl	72		80		30-130
2,4,6-Tribromophenol	86		100		30-130
4-Terphenyl-d14	72		83		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/08/17 07:52
Analyst: MEO
Percent Solids: 76%

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 13:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	201000		ug/kg	42400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/08/17 08:24
Analyst: MEO
Percent Solids: 81%

Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 13:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	383000		ug/kg	40600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 06/08/17 05:43
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 06/07/17 10:34

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG1010682-1					
TPH	ND		ug/kg	32300	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG1010682-2								
TPH	105		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/08/17 17:31
Analyst: HT
Percent Solids: 76%

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 11:56
Cleanup Method: EPA 3665A
Cleanup Date: 06/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/08/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.5	--	1	A
Aroclor 1221	ND		ug/kg	41.5	--	1	A
Aroclor 1232	ND		ug/kg	41.5	--	1	A
Aroclor 1242	ND		ug/kg	41.5	--	1	A
Aroclor 1248	ND		ug/kg	41.5	--	1	A
Aroclor 1254	80.2		ug/kg	41.5	--	1	A
Aroclor 1260	49.4		ug/kg	41.5	--	1	B
Aroclor 1262	ND		ug/kg	41.5	--	1	A
Aroclor 1268	ND		ug/kg	41.5	--	1	B
PCBs, Total	130		ug/kg	41.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/08/17 17:44
Analyst: HT
Percent Solids: 81%

Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 11:56
Cleanup Method: EPA 3665A
Cleanup Date: 06/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/08/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.3	--	1	A
Aroclor 1221	ND		ug/kg	39.3	--	1	A
Aroclor 1232	ND		ug/kg	39.3	--	1	A
Aroclor 1242	ND		ug/kg	39.3	--	1	A
Aroclor 1248	ND		ug/kg	39.3	--	1	A
Aroclor 1254	89.3		ug/kg	39.3	--	1	B
Aroclor 1260	ND		ug/kg	39.3	--	1	B
Aroclor 1262	ND		ug/kg	39.3	--	1	A
Aroclor 1268	ND		ug/kg	39.3	--	1	A
PCBs, Total	89.3		ug/kg	39.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 06/08/17 19:23
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 06/07/17 00:42
Cleanup Method: EPA 3665A
Cleanup Date: 06/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/08/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG1010510-1						
Aroclor 1016	ND		ug/kg	31.3	--	A
Aroclor 1221	ND		ug/kg	31.3	--	A
Aroclor 1232	ND		ug/kg	31.3	--	A
Aroclor 1242	ND		ug/kg	31.3	--	A
Aroclor 1248	ND		ug/kg	31.3	--	A
Aroclor 1254	ND		ug/kg	31.3	--	A
Aroclor 1260	ND		ug/kg	31.3	--	A
Aroclor 1262	ND		ug/kg	31.3	--	A
Aroclor 1268	ND		ug/kg	31.3	--	A
PCBs, Total	ND		ug/kg	31.3	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	97		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

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: WG1010510-2 WG1010510-3									
Aroclor 1016	72		76		40-140	5		30	A
Aroclor 1260	73		79		40-140	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		93		30-150	A
Decachlorobiphenyl	90		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		85		30-150	B
Decachlorobiphenyl	93		99		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/09/17 13:12
Analyst: KEG
Percent Solids: 76%

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 14:38
Cleanup Method: EPA 3620B
Cleanup Date: 06/08/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.4	--	1	A
Lindane	ND		ug/kg	3.48	--	1	A
Alpha-BHC	ND		ug/kg	4.35	--	1	A
Beta-BHC	ND		ug/kg	10.4	--	1	A
Heptachlor	ND		ug/kg	5.22	--	1	A
Aldrin	ND		ug/kg	10.4	--	1	A
Heptachlor epoxide	ND		ug/kg	19.6	--	1	A
Endrin	ND		ug/kg	4.35	--	1	A
Endrin ketone	ND		ug/kg	10.4	--	1	A
Dieldrin	ND		ug/kg	6.53	--	1	A
4,4'-DDE	ND		ug/kg	10.4	--	1	A
4,4'-DDD	ND		ug/kg	10.4	--	1	A
4,4'-DDT	ND		ug/kg	19.6	--	1	B
Endosulfan I	ND		ug/kg	10.4	--	1	A
Endosulfan II	ND		ug/kg	10.4	--	1	B
Endosulfan sulfate	ND		ug/kg	4.35	--	1	A
Methoxychlor	ND		ug/kg	19.6	--	1	A
Chlordane	ND		ug/kg	84.9	--	1	A
Hexachlorobenzene	ND		ug/kg	10.4	--	1	B
Toxaphene	ND		ug/kg	196	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01 D
Client ID: UTILITY SPOILS STOCKPILE (NORTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/09/17 11:00
Analyst: SL
Percent Solids: 76%
Methylation Date: 06/07/17 21:49

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/07/17 00:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	220000	--	50	A
MCPA	ND		ug/kg	220000	--	50	A
Dalapon	ND		ug/kg	2200	--	50	A
Dicamba	ND		ug/kg	2200	--	50	A
Dichloroprop	ND		ug/kg	2200	--	50	A
2,4-D	ND		ug/kg	2200	--	50	A
2,4-DB	ND		ug/kg	2200	--	50	A
2,4,5-T	ND		ug/kg	2200	--	50	A
2,4,5-TP (Silvex)	ND		ug/kg	2200	--	50	A
Dinoseb	ND		ug/kg	2200	--	50	A

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: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/09/17 13:28
Analyst: KEG
Percent Solids: 81%

Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/07/17 14:38
Cleanup Method: EPA 3620B
Cleanup Date: 06/08/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.47	--	1	A
Lindane	ND		ug/kg	3.16	--	1	A
Alpha-BHC	ND		ug/kg	3.95	--	1	A
Beta-BHC	ND		ug/kg	9.47	--	1	A
Heptachlor	ND		ug/kg	4.74	--	1	A
Aldrin	ND		ug/kg	9.47	--	1	A
Heptachlor epoxide	ND		ug/kg	17.8	--	1	A
Endrin	ND		ug/kg	3.95	--	1	A
Endrin ketone	ND		ug/kg	9.47	--	1	A
Dieldrin	ND		ug/kg	5.92	--	1	A
4,4'-DDE	ND		ug/kg	9.47	--	1	A
4,4'-DDD	ND		ug/kg	9.47	--	1	A
4,4'-DDT	ND		ug/kg	17.8	--	1	A
Endosulfan I	ND		ug/kg	9.47	--	1	A
Endosulfan II	ND		ug/kg	9.47	--	1	A
Endosulfan sulfate	ND		ug/kg	3.95	--	1	A
Methoxychlor	ND		ug/kg	17.8	--	1	A
Chlordane	ND		ug/kg	77.0	--	1	A
Hexachlorobenzene	ND		ug/kg	9.47	--	1	A
Toxaphene	ND		ug/kg	178	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUTH)
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/08/17 19:37
Analyst: SL
Percent Solids: 81%
Methylation Date: 06/07/17 21:49

Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/07/17 00:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4000	--	1	A
MCPA	ND		ug/kg	4000	--	1	A
Dalapon	ND		ug/kg	40	--	1	A
Dicamba	ND		ug/kg	40	--	1	A
Dichloroprop	ND		ug/kg	40	--	1	A
2,4-D	ND		ug/kg	40	--	1	A
2,4-DB	ND		ug/kg	40	--	1	A
2,4,5-T	ND		ug/kg	40	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	40	--	1	A
Dinoseb	ND		ug/kg	40	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	70		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 06/08/17 09:37
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/07/17 00:36

Methylation Date: 06/07/17 21:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-02 Batch: WG1010513-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	69		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 06/08/17 16:52
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 06/07/17 14:38
Cleanup Method: EPA 3620B
Cleanup Date: 06/08/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-02 Batch: WG1010784-1						
Delta-BHC	ND		ug/kg	7.93	--	A
Lindane	ND		ug/kg	2.64	--	A
Alpha-BHC	ND		ug/kg	3.30	--	A
Beta-BHC	ND		ug/kg	7.93	--	A
Heptachlor	ND		ug/kg	3.96	--	A
Aldrin	ND		ug/kg	7.93	--	A
Heptachlor epoxide	ND		ug/kg	14.9	--	A
Endrin	ND		ug/kg	3.30	--	A
Endrin ketone	ND		ug/kg	7.93	--	A
Dieldrin	ND		ug/kg	4.95	--	A
4,4'-DDE	ND		ug/kg	7.93	--	A
4,4'-DDD	ND		ug/kg	7.93	--	A
4,4'-DDT	ND		ug/kg	14.9	--	A
Endosulfan I	ND		ug/kg	7.93	--	A
Endosulfan II	ND		ug/kg	7.93	--	A
Endosulfan sulfate	ND		ug/kg	3.30	--	A
Methoxychlor	ND		ug/kg	14.9	--	A
Chlordane	ND		ug/kg	64.4	--	A
Hexachlorobenzene	ND		ug/kg	7.93	--	A
Toxaphene	ND		ug/kg	149	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	49		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	48		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

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: WG1010513-2 WG1010513-3									
MCPP	119		123		40-140	3		30	A
MCPA	86		87		40-140	1		30	A
Dalapon	72		70		40-140	3		30	A
Dicamba	78		77		40-140	1		30	A
Dichloroprop	102		104		40-140	2		30	A
2,4-D	80		83		40-140	4		30	A
2,4-DB	83		82		40-140	1		30	A
2,4,5-T	79		78		40-140	1		30	A
2,4,5-TP (Silvex)	79		79		40-140	0		30	A
Dinoseb	**16**	Q	**12**	Q	40-140	29		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	97		97		30-150	A
DCAA	72		72		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

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: WG1010784-2 WG1010784-3									
Delta-BHC	61		61		40-140	0		30	A
Lindane	62		63		40-140	2		30	A
Alpha-BHC	66		66		40-140	0		30	A
Beta-BHC	60		59		40-140	2		30	A
Heptachlor	61		61		40-140	0		30	A
Aldrin	65		65		40-140	0		30	A
Heptachlor epoxide	61		61		40-140	0		30	A
Endrin	65		66		40-140	2		30	A
Endrin ketone	61		64		40-140	5		30	A
Dieldrin	69		70		40-140	1		30	A
4,4'-DDE	67		67		40-140	0		30	A
4,4'-DDD	60		62		40-140	3		30	A
4,4'-DDT	59		61		40-140	3		30	A
Endosulfan I	63		63		40-140	0		30	A
Endosulfan II	63		65		40-140	3		30	A
Endosulfan sulfate	61		64		40-140	5		30	A
Methoxychlor	56		60		40-140	7		30	A
Hexachlorobenzene	62		61		40-140	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1010784-2 WG1010784-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		67		30-150	B
Decachlorobiphenyl	55		62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		66		30-150	A
Decachlorobiphenyl	62		63		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

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: WG1010784-4 WG1010784-5									
Toxaphene	59		64		40-140	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		75		30-150	B
Decachlorobiphenyl	65		70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		76		30-150	A
Decachlorobiphenyl	63		70		30-150	A

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 76%

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified

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	2.55	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Arsenic, Total	62.8		mg/kg	0.510	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Barium, Total	67.7		mg/kg	0.510	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Beryllium, Total	0.265		mg/kg	0.255	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Cadmium, Total	12.1		mg/kg	0.510	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Chromium, Total	14.8		mg/kg	0.510	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Lead, Total	250		mg/kg	2.55	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Mercury, Total	0.574		mg/kg	0.082	--	1	06/06/17 07:30	06/07/17 10:04	EPA 7471B	97,7471B	BV
Nickel, Total	10.7		mg/kg	1.27	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Selenium, Total	4.03		mg/kg	2.55	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Silver, Total	4.42		mg/kg	0.510	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.55	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Vanadium, Total	18.0		mg/kg	0.510	--	1	06/06/17 21:50	06/07/17 19:25	EPA 3050B	97,6010C	AB
Zinc, Total	4860		mg/kg	25.5	--	10	06/06/17 21:50	06/08/17 01:06	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 81%

Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	35.3		mg/kg	2.44	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Arsenic, Total	122		mg/kg	0.489	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Barium, Total	130		mg/kg	0.489	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Beryllium, Total	0.381		mg/kg	0.244	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Cadmium, Total	7.56		mg/kg	0.489	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Chromium, Total	18.8		mg/kg	0.489	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Lead, Total	674		mg/kg	2.44	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Mercury, Total	2.42		mg/kg	0.079	--	1	06/06/17 07:30	06/07/17 10:10	EPA 7471B	97,7471B	BV
Nickel, Total	15.0		mg/kg	1.22	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Selenium, Total	3.69		mg/kg	2.44	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Silver, Total	3.61		mg/kg	0.489	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.44	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Vanadium, Total	26.6		mg/kg	0.489	--	1	06/06/17 21:50	06/07/17 19:30	EPA 3050B	97,6010C	AB
Zinc, Total	3760		mg/kg	24.4	--	10	06/06/17 21:50	06/08/17 01:10	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

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: WG1010100-1										
Mercury, Total	ND		mg/kg	0.083	--	1	06/06/17 07:30	06/07/17 09:59	97,7471B	BV

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: WG1010451-1										
Antimony, Total	ND		mg/kg	2.00	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Arsenic, Total	ND		mg/kg	0.400	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Barium, Total	ND		mg/kg	0.400	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.200	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Chromium, Total	ND		mg/kg	0.400	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Lead, Total	ND		mg/kg	2.00	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Nickel, Total	ND		mg/kg	1.00	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Selenium, Total	ND		mg/kg	2.00	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Silver, Total	ND		mg/kg	0.400	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Thallium, Total	ND		mg/kg	2.00	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Vanadium, Total	ND		mg/kg	0.400	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB
Zinc, Total	ND		mg/kg	2.00	--	1	06/06/17 21:50	06/07/17 18:31	97,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1010100-2 WG1010100-3 SRM Lot Number: D091-540								
Mercury, Total	100		106		72-128	6		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1010451-2 WG1010451-3 SRM Lot Number: D091-540								
Antimony, Total	161		139		1-200	15		30
Arsenic, Total	106		89		80-121	17		30
Barium, Total	95		**80**	Q	84-117	17		30
Beryllium, Total	100		85		83-117	16		30
Cadmium, Total	107		92		83-117	15		30
Chromium, Total	100		82		80-119	20		30
Lead, Total	103		89		82-118	15		30
Nickel, Total	102		88		83-117	15		30
Selenium, Total	103		88		79-121	16		30
Silver, Total	97		78		76-124	22		30
Thallium, Total	105		90		80-121	15		30
Vanadium, Total	96		80		78-122	18		30
Zinc, Total	100		86		82-118	15		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
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	06/06/17 23:40	1,1030	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/05/17 11:15
Date Received: 06/05/17
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	06/06/17 23:40	1,1030	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-01
Client ID: UTILITY SPOILS STOCKPILE (NORT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/05/17 11:00
Date Received: 06/05/17
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	560		umhos/cm	10	--	1	-	06/06/17 06:16	1,9050A	VB
Solids, Total	76.3		%	0.100	NA	1	-	06/06/17 10:06	121,2540G	RI
pH (H)	7.3		SU	-	NA	1	-	06/06/17 03:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	06/06/17 09:25	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	06/06/17 19:35	06/06/17 21:54	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/06/17 19:35	06/06/17 21:47	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718412-02
Client ID: UTILITY SPOILS STOCKPILE (SOUT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/05/17 11:15
Date Received: 06/05/17
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	730		umhos/cm	10	--	1	-	06/06/17 06:16	1,9050A	VB
Solids, Total	81.2		%	0.100	NA	1	-	06/06/17 10:06	121,2540G	RI
pH (H)	5.4		SU	-	NA	1	-	06/06/17 03:20	1,9045D	VB
Flash Point	>150		deg F	70	NA	1	-	06/06/17 09:25	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	06/06/17 19:35	06/06/17 21:55	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/06/17 19:35	06/06/17 21:48	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718412
Report Date: 06/09/17

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: WG1010409-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	06/06/17 19:35	06/06/17 21:45	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1010410-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	06/06/17 19:35	06/06/17 21:53	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718412

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1010094-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1010095-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1010301-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1010409-2								
Sulfide, Reactive	82		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1010410-2								
Cyanide, Reactive	40		-		30-125	-		40

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

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(*)
L1718412-01A	Vial MeOH preserved	A	N/A	N/A	4.8	Y	Absent		MCP-8260HLW-10(14)
L1718412-01B	Vial water preserved	A	N/A	N/A	4.8	Y	Absent	06-JUN-17 00:21	MCP-8260HLW-10(14)
L1718412-01C	Vial water preserved	A	N/A	N/A	4.8	Y	Absent	06-JUN-17 00:21	MCP-8260HLW-10(14)
L1718412-01D	Metals Only-Glass 60mL/2oz unpreserved	A	N/A	N/A	4.8	Y	Absent		MCP-CR-6010T-10(180),TCLPRELOG(),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)
L1718412-01E	Vial Large Septa unpreserved (4oz)	A	N/A	N/A	4.8	Y	Absent		MCP-8260HLW-10(2)
L1718412-01F	Glass 250ml/8oz unpreserved	A	N/A	N/A	4.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1718412-01G	Glass 500ml/16oz unpreserved	A	N/A	N/A	4.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1718412-02A	Vial MeOH preserved	A	N/A	N/A	4.8	Y	Absent		MCP-8260HLW-10(14)
L1718412-02B	Vial water preserved	A	N/A	N/A	4.8	Y	Absent	06-JUN-17 00:21	MCP-8260HLW-10(14)
L1718412-02C	Vial water preserved	A	N/A	N/A	4.8	Y	Absent	06-JUN-17 00:21	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718412
Report Date: 06/09/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1718412-02D	Metals Only-Glass 60mL/2oz unpreserved	A	N/A	N/A	4.8	Y	Absent		MCP-CR-6010T-10(180),TCLPRELOG(),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)
L1718412-02E	Vial Large Septa unpreserved (4oz)	A	N/A	N/A	4.8	Y	Absent		MCP-8260HLW-10(2)
L1718412-02F	Glass 250ml/8oz unpreserved	A	N/A	N/A	4.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1718412-02G	Glass 500ml/16oz unpreserved	A	N/A	N/A	4.8	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1718412
Project Number:	171521.52	**Report Date:**	06/09/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1718412
Project Number:	171521.52	**Report Date:**	06/09/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1718412
Project Number:	171521.52	**Report Date:**	06/09/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 6/6/17

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 6/5/17

ALPHA Job #: L1714412

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193

Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: ~~Wynn Boston Harbor~~ WYNN EVERETT

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,

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

☐ These samples have been Previously analyzed by Alpha

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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 ignt	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						
1714412.01	Utility Spoils Stockpile (North)	6/5/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
.02	Utility Spoils Stockpile (South)	6/5/17	1115	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	6/5/17 @12:55		
JAL	6/5/17 1705		6/5/17 1300

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)

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: 6/5/17

ALPHA Job #: L1718412

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,

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

☐ These samples have been Previously analyzed by Alpha

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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
1718412.01	Utility Spoils Stockpile (North)	6/5/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	
02	Utility Spoils Stockpile (South)	6/5/17	1115	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/5/17 @12:55		
JAL	6/5/17 1705		6/5/17 1300

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1718412
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1011021-5	**Lab File ID**	: V04170607N05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 06/07/17 17:34

Client Sample No.	Lab Sample ID	Analysis Date
WG1011021-3LCS	WG1011021-3	06/07/17 15:48
WG1011021-4LCSD	WG1011021-4	06/07/17 17:08
UTILITY SPOILS STOCKPILE (SOUTH)	L1718412-02	06/07/17 18:53

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1718412
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1011172-5	**Lab File ID**	: VC170608A04
Instrument ID	: CHARLIE		
Matrix	: SOIL	**Analysis Date**	: 06/08/17 08:56

Client Sample No.	Lab Sample ID	Analysis Date
WG1011172-3LCS	WG1011172-3	06/08/17 08:01
WG1011172-4LCSD	WG1011172-4	06/08/17 08:28
UTILITY SPOILS STOCKPILE (NORTH)	L1718412-01	06/08/17 10:46

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1718412	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 06/07/17 15:48	
Lab File ID	: V04170607N01	Init. Calib. Date(s)	: 05/17/17	05/17/17
Sample No	: WG1011021-2	Init. Calib. Times	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	67	0
Dichlorodifluoromethane	0.277	0.395	-	-42.6*	20	96	0
Chloromethane	0.444	0.6	-	-35.1*	20	92	0
Vinyl chloride	0.327	0.442	-	-35.2*	20	92	0
Bromomethane	20	21.96	-	-9.8	20	82	0
Chloroethane	0.184	0.204	-	-10.9	20	75	0
Trichlorofluoromethane	0.422	0.584	-	-38.4*	20	92	0
Ethyl ether	0.14	0.14	-	0	20	66	0
1,1-Dichloroethene	0.27	0.267	-	1.1	20	68	0
Carbon disulfide	1.177	1.021	-	13.3	20	55	0
Methylene chloride	0.334	0.35	-	-4.8	20	72	0
Acetone	0.068	0.098	-	-44.1*	20	92	0
trans-1,2-Dichloroethene	0.304	0.335	-	-10.2	20	75	0
Methyl tert-butyl ether	0.811	0.977	-	-20.5*	20	80	0
Diisopropyl ether	1.146	1.379	-	-20.3*	20	79	0
1,1-Dichloroethane	0.604	0.678	-	-12.3	20	76	0
Ethyl tert-butyl ether	1.034	1.178	-	-13.9	20	75	0
cis-1,2-Dichloroethene	0.334	0.34	-	-1.8	20	70	-.01
2,2-Dichloropropane	0.443	0.554	-	-25.1*	20	85	0
Bromochloromethane	0.168	0.172	-	-2.4	20	66	0
Chloroform	0.548	0.617	-	-12.6	20	76	0
Carbon tetrachloride	0.4	0.538	-	-34.5*	20	90	0
Tetrahydrofuran	0.089	0.106	-	-19.1	20	81	0
Dibromofluoromethane	0.281	0.291	-	-3.6	20	69	0
1,1,1-Trichloroethane	0.466	0.592	-	-27*	20	87	0
2-Butanone	0.117	0.164	-	-40.2*	20	84	0
1,1-Dichloropropene	0.383	0.44	-	-14.9	20	75	0
Benzene	1.146	1.206	-	-5.2	20	73	0
tert-Amyl methyl ether	0.768	0.834	-	-8.6	20	72	0
1,2-Dichloroethane-d4	0.258	0.307	-	-19	20	80	0
1,2-Dichloroethane	0.416	0.533	-	-28.1*	20	85	0
Trichloroethene	0.311	0.343	-	-10.3	20	74	0
Dibromomethane	0.184	0.204	-	-10.9	20	73	0
1,2-Dichloropropane	0.332	0.386	-	-16.3	20	77	0
Bromodichloromethane	0.409	0.484	-	-18.3	20	79	0
1,4-Dioxane	0.00259	0.00288	-	-11.2	20	72	0
cis-1,3-Dichloropropene	0.497	0.576	-	-15.9	20	78	0
Chlorobenzene-d5	1	1	-	0	20	76	0
Toluene-d8	1.163	1.145	-	1.5	20	74	0
Toluene	0.869	0.879	-	-1.2	20	77	0
4-Methyl-2-pentanone	0.129	0.131	-	-1.6	20	76	0
Tetrachloroethene	0.425	0.443	-	-4.2	20	79	0
trans-1,3-Dichloropropene	0.5	0.534	-	-6.8	20	80	0
1,1,2-Trichloroethane	0.262	0.253	-	3.4	20	71	0
Chlorodibromomethane	0.419	0.436	-	-4.1	20	78	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1718412	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 06/07/17 15:48	
Lab File ID	: V04170607N01	**Init. Calib. Date(s)**	: 05/17/17	05/17/17
Sample No	: WG1011021-2	**Init. Calib. Times**	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,3-Dichloropropane	0.506	0.5	-	1.2	20	73	0
1,2-Dibromoethane	0.337	0.329	-	2.4	20	72	0
2-Hexanone	0.211	0.251	-	-19	20	88	0
Chlorobenzene	1.066	1.064	-	0.2	20	76	0
Ethylbenzene	1.671	1.71	-	-2.3	20	78	0
1,1,1,2-Tetrachloroethane	0.403	0.415	-	-3	20	78	0
p/m Xylene	0.677	0.686	-	-1.3	20	76	0
o Xylene	0.645	0.661	-	-2.5	20	77	0
Styrene	1.077	1.061	-	1.5	20	73	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	75	0
Bromoform	0.51	0.5	-	2	20	75	0
Isopropylbenzene	3.302	3.447	-	-4.4	20	82	0
4-Bromofluorobenzene	0.879	0.869	-	1.1	20	76	0
Bromobenzene	0.91	0.885	-	2.7	20	75	0
n-Propylbenzene	3.664	3.715	-	-1.4	20	78	0
1,1,2,2-Tetrachloroethane	0.738	0.667	-	9.6	20	68	0
2-Chlorotoluene	2.226	2.234	-	-0.4	20	78	0
1,3,5-Trimethylbenzene	2.765	2.891	-	-4.6	20	81	0
1,2,3-Trichloropropane	0.543	0.541	-	0.4	20	75	0
4-Chlorotoluene	2.242	2.281	-	-1.7	20	79	0
tert-Butylbenzene	2.324	2.407	-	-3.6	20	80	0
1,2,4-Trimethylbenzene	2.763	2.784	-	-0.8	20	76	0
sec-Butylbenzene	3.453	3.557	-	-3	20	79	0
p-Isopropyltoluene	2.971	3.19	-	-7.4	20	83	0
1,3-Dichlorobenzene	1.665	1.599	-	4	20	74	0
1,4-Dichlorobenzene	1.696	1.604	-	5.4	20	74	0
n-Butylbenzene	2.591	2.729	-	-5.3	20	82	0
1,2-Dichlorobenzene	1.549	1.518	-	2	20	74	0
1,2-Dibromo-3-chloropropan	0.127	0.115	-	9.4	20	73	0
Hexachlorobutadiene	0.579	0.593	-	-2.4	20	80	0
1,2,4-Trichlorobenzene	1.144	1.096	-	4.2	20	74	0
Naphthalene	2.459	2.28	-	7.3	20	71	0
1,2,3-Trichlorobenzene	1.06	1.003	-	5.4	20	72	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1718412	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: CHARLIE	Calibration Date	: 06/08/17 08:01	
Lab File ID	: VC170608A02	Init. Calib. Date(s)	: 06/05/17	06/05/17
Sample No	: WG1011172-2	Init. Calib. Times	: 09:54	13:35
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	100	0
Dichlorodifluoromethane	0.34	0.342	-	-0.6	20	106	0
Chloromethane	0.392	0.348	-	11.2	20	95	0
Vinyl chloride	0.352	0.361	-	-2.6	20	107	0
Bromomethane	0.206	0.175	-	15	20	84	0
Chloroethane	0.206	0.209	-	-1.5	20	101	0
Trichlorofluoromethane	0.39	0.43	-	-10.3	20	112	0
Ethyl ether	0.165	0.168	-	-1.8	20	98	0
1,1-Dichloroethene	0.218	0.223	-	-2.3	20	106	0
Carbon disulfide	20	17.245	-	13.8	20	77	0
Freon-113	0.199	0.217	-	-9	20	114	0
Acrolein	0.067	0.059	-	11.9	20	90	0
Methylene chloride	0.363	0.354	-	2.5	20	93	0
Acetone	0.097	0.089	-	8.2	20	88	0
trans-1,2-Dichloroethene	0.328	0.321	-	2.1	20	96	0
Methyl acetate	0.211	0.182	-	13.7	20	84	0
Methyl tert-butyl ether	1.017	0.971	-	4.5	20	90	0
tert-Butyl alcohol	0.043	0.027	-	37.2*	20	60	.01
Diisopropyl ether	1.144	1.079	-	5.7	20	90	0
1,1-Dichloroethane	0.665	0.648	-	2.6	20	94	0
Halothane	0.218	0.21	-	3.7	20	97	0
Acrylonitrile	0.113	0.106	-	6.2	20	88	0
Ethyl tert-butyl ether	1.255	1.166	-	7.1	20	89	0
Vinyl acetate	0.826	0.665	-	19.5	20	77	0
cis-1,2-Dichloroethene	0.372	0.358	-	3.8	20	91	0
2,2-Dichloropropane	0.5	0.442	-	11.6	20	89	0
Bromochloromethane	0.157	0.152	-	3.2	20	88	0
Cyclohexane	0.544	0.543	-	0.2	20	104	0
Chloroform	0.625	0.608	-	2.7	20	93	0
Ethyl acetate	0.318	0.282	-	11.3	20	83	0
Carbon tetrachloride	20	13.443	-	32.8*	20	74	0
Tetrahydrofuran	0.097	0.093	-	4.1	20	89	0
Dibromofluoromethane	0.258	0.25	-	3.1	20	97	0
1,1,1-Trichloroethane	0.511	0.473	-	7.4	20	93	0
2-Butanone	0.145	0.125	-	13.8	20	90	0
1,1-Dichloropropene	0.428	0.429	-	-0.2	20	101	0
Benzene	1.286	1.26	-	2	20	94	0
tert-Amyl methyl ether	0.977	0.918	-	6	20	90	0
1,2-Dichloroethane-d4	0.301	0.301	-	0	20	103	0
1,2-Dichloroethane	0.53	0.509	-	4	20	91	0
Methyl cyclohexane	0.459	0.473	-	-3.1	20	106	0
Trichloroethene	0.33	0.325	-	1.5	20	95	0
Dibromomethane	0.213	0.205	-	3.8	20	90	0
1,2-Dichloropropane	0.371	0.364	-	1.9	20	93	0
2-Chloroethyl vinyl ether	0.173	0.19	-	-9.8	20	94	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1718412	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: CHARLIE	Calibration Date	: 06/08/17 08:01	
Lab File ID	: VC170608A02	Init. Calib. Date(s)	: 06/05/17	06/05/17
Sample No	: WG1011172-2	Init. Calib. Times	: 09:54	13:35
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.485	0.425	-	12.4	20	83	0
1,4-Dioxane	0.00344	0.00318	-	7.6	20	87	0
cis-1,3-Dichloropropene	0.549	0.51	-	7.1	20	88	0
Chlorobenzene-d5	1	1	-	0	20	94	0
Toluene-d8	1.339	1.35	-	-0.8	20	98	0
Toluene	1.058	1.07	-	-1.1	20	95	0
4-Methyl-2-pentanone	0.193	0.176	-	8.8	20	89	0
Tetrachloroethene	0.385	0.392	-	-1.8	20	96	0
trans-1,3-Dichloropropene	0.681	0.618	-	9.3	20	83	0
Ethyl methacrylate	0.581	0.518	-	10.8	20	79	0
1,1,2-Trichloroethane	0.334	0.346	-	-3.6	20	92	0
Chlorodibromomethane	0.424	0.333	-	21.5*	20	73	0
1,3-Dichloropropane	0.682	0.695	-	-1.9	20	92	0
1,2-Dibromoethane	0.387	0.382	-	1.3	20	89	0
2-Hexanone	0.325	0.321	-	1.2	20	96	0
Chlorobenzene	1.155	1.184	-	-2.5	20	93	0
Ethylbenzene	2.063	2.144	-	-3.9	20	96	0
1,1,1,2-Tetrachloroethane	0.399	0.328	-	17.8	20	76	0
p/m Xylene	0.775	0.812	-	-4.8	20	94	0
o Xylene	0.759	0.796	-	-4.9	20	94	0
Styrene	1.322	1.371	-	-3.7	20	92	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	93	0
Bromoform	20	12.275	-	38.6*	20	63	0
Isopropylbenzene	4.254	4.512	-	-6.1	20	98	0
4-Bromofluorobenzene	1.201	1.172	-	2.4	20	93	0
Bromobenzene	0.93	0.945	-	-1.6	20	90	0
n-Propylbenzene	5.14	5.506	-	-7.1	20	98	0
1,4-Dichlorobutane	1.705	1.743	-	-2.2	20	92	0
1,1,2,2-Tetrachloroethane	1.053	1.102	-	-4.7	20	93	0
4-Ethyltoluene	4.311	4.556	-	-5.7	20	96	0
2-Chlorotoluene	3.03	2.849	-	6	20	94	0
1,3,5-Trimethylbenzene	3.6	3.827	-	-6.3	20	96	0
1,2,3-Trichloropropane	0.845	0.862	-	-2	20	92	0
trans-1,4-Dichloro-2-buten	0.371	0.313	-	15.6	20	82	0
4-Chlorotoluene	3.366	3.507	-	-4.2	20	93	0
tert-Butylbenzene	2.786	2.938	-	-5.5	20	97	0
1,2,4-Trimethylbenzene	3.708	3.919	-	-5.7	20	95	0
sec-Butylbenzene	4.322	4.611	-	-6.7	20	99	0
p-Isopropyltoluene	3.484	3.708	-	-6.4	20	98	0
1,3-Dichlorobenzene	1.833	1.912	-	-4.3	20	92	0
1,4-Dichlorobenzene	1.881	1.936	-	-2.9	20	93	0
p-Diethylbenzene	2.142	2.285	-	-6.7	20	97	0
n-Butylbenzene	3.602	3.846	-	-6.8	20	100	0
1,2-Dichlorobenzene	1.725	1.783	-	-3.4	20	92	0
1,2,4,5-Tetramethylbenzene	3.543	3.666	-	-3.5	20	92	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1718412	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: CHARLIE	**Calibration Date**	: 06/08/17 08:01	
Lab File ID	: VC170608A02	**Init. Calib. Date(s)**	: 06/05/17	06/05/17
Sample No	: WG1011172-2	**Init. Calib. Times**	: 09:54	13:35
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.151	0.111	-	26.5*	20	74	0
1,3,5-Trichlorobenzene	1.313	1.327	-	-1.1	20	90	0
Hexachlorobutadiene	0.567	0.56	-	1.2	20	94	0
1,2,4-Trichlorobenzene	1.169	1.167	-	0.2	20	91	0
Naphthalene	2.972	2.919	-	1.8	20	92	0
1,2,3-Trichlorobenzene	1.075	1.058	-	1.6	20	90	0

* Value outside of QC limits.

Data File Name	**11170608c-01.d**
Data File Path	**I:\Pest11\170608c**
Operator	**PEST11:keg**
Date Acquired	**6/8/2017 15:17**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170608c01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.85	778854604.7	% Breakdown
4,4'-DDE	4.19	3576586.30	
4,4'-DDD	4.64	5128753.563	1.11%
Endrin	4.58	558067022.4	% Breakdown
Endrin Aldehyde	5.05	1384927.114	
Endrin Ketone	5.54	6975732.333	1.48%
4,4'-DDT #2	5.46	1131081011.44	% Breakdown
4,4'-DDE #2	4.82	4390562.62	
4,4'-DDD #2	5.24	8155786.842	1.10%
Endrin #2	5.17	916482376.6	
Endrin Aldehyde #2	5.56	2793855.126	
Endrin Ketone #2	6.11	8723234.333	1.24%

######### Data File Path **I:\Pest17\150918**

wg1010784-1,2,3,4,5

I:\Pest11\170609a\11170609a-01.d

Data File Name	**11170609a-01.d**
Data File Path	**I:\Pest11\170609a**
Operator	**PEST11:keg**
Date Acquired	**6/9/2017 10:00**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170609a01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.84	842867069.3	% Breakdown
4,4'-DDE	4.18	3400846.50	
4,4'-DDD	4.64	6990255.142	1.22%
Endrin	4.58	576418421.1	% Breakdown
Endrin Aldehyde	5.03	17892545.72	
Endrin Ketone	5.55	8076661.959	4.31%
4,4'-DDT #2	5.46	1427740808.68	% Breakdown
4,4'-DDE #2	4.81	4463267.49	
4,4'-DDD #2	5.24	13804164.76	1.26%
Endrin #2	5.17	964202283.5	
Endrin Aldehyde #2	5.55	30496226.93	
Endrin Ketone #2	6.12	12945716.68	4.31%

######### Data File Path **I:\Pest17\150918**

L1718412-01,02

ANALYTICAL REPORT

Lab Number:	L1718792
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:	06/09/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1718792
Report Date: 06/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1718792-01	LAGOON NORTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/01/17 14:30	06/01/17
L1718792-02	LAGOON SOUTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/01/17 14:30	06/01/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718792
Report Date: 06/09/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718792
Report Date: 06/09/17

Case Narrative (continued)

Sample Receipt

The project name and number were specified by the client.

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: 06/09/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1718792
Project Number: 171521.52
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718792-01
Client ID: LAGOON NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/08/17 03:59

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	06/09/17 08:28	06/09/17 12:16	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718792
Report Date: 06/09/17

SAMPLE RESULTS

Lab ID: L1718792-02
Client ID: LAGOON SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/01/17 14:30
Date Received: 06/01/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/08/17 03:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/09/17 08:28	06/09/17 11:29	EPA 3015	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	06/09/17 08:28	06/09/17 11:29	EPA 3015	1,6010C	PS
Mercury, TCLP	ND		mg/l	0.0010	--	1	06/09/17 08:20	06/09/17 12:00	EPA 7470A	1,7470A	MG

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1718792
Report Date: 06/09/17

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): 02 Batch: WG1011444-1										
Mercury, TCLP	ND		mg/l	0.0010	--	1	06/09/17 08:20	06/09/17 11:56	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 06/08/17 03:59

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: WG1011453-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/09/17 08:28	06/09/17 12:07	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	06/09/17 08:28	06/09/17 12:07	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/08/17 03:59

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1718792

Report Date: 06/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1011444-2								
Mercury, TCLP	100		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1011453-2								
Arsenic, TCLP	120		-		75-125	-		20
Lead, TCLP	112		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718792
Report Date: 06/09/17

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): 02 QC Batch ID: WG1011444-3 QC Sample: L1718792-02 Client ID: LAGOON SOUTH												
Mercury, TCLP	ND	0.025	0.0243	97		-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1011453-3 QC Sample: L1718792-01 Client ID: LAGOON NORTH												
Arsenic, TCLP	ND	1.2	1.42	118		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.35	105		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718792
Report Date: 06/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1011444-4 QC Sample: L1718792-02 Client ID: LAGOON SOUTH						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1011453-4 QC Sample: L1718792-01 Client ID: LAGOON NORTH						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1718792
Report Date: 06/09/17

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(*)
L1718792-01A	Glass 250ml/8oz unpreserved	A	N/A	N/A	3.0	Y	Absent		-
L1718792-01X	Plastic 120ml HNO3 preserved Extracts	A	<2	<2	3.0	Y	Absent		PB-CI(180)
L1718792-01X9	Tumble Vessel	A	N/A	N/A	3.0	Y	Absent		-
L1718792-02A	Glass 250ml/8oz unpreserved	A	N/A	N/A	3.0	Y	Absent		-
L1718792-02X	Plastic 120ml HNO3 preserved Extracts	A	<2	<2	3.0	Y	Absent		AS-CI(180),HG-C(28),PB-CI(180)
L1718792-02X9	Tumble Vessel	A	N/A	N/A	3.0	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1718792
Project Number:	171521.52	**Report Date:**	06/09/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1718792
Project Number:	171521.52	**Report Date:**	06/09/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1718792
Project Number:	171521.52	**Report Date:**	06/09/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

DM 6/7/17 L1718792

CHAIN OF CUSTODY

PAGE DD OF

Date Rec'd in Lab: 6/1/17

ALPHA Job #: L1718045

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:

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 meatals

ANALYSIS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not Needed
☐ Lab to do

Preservation
☐ Lab to do

(Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP 14 Metals	VOCs 8260	SVOCs 8270 with Pyridine	PCBs, TPH, pH	Herbicides, Pesticides w/ Toxiphrane	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	TCLP-PB	TCLP-HG, AS				
18792-01	Lagoon North	6/1/17	14:30	Sludge	LFT	☑	☑	☑	☑	☑	☑	☑	☐	X	☐	☐	☐	
02	Lagoon South	6/1/17	14:30	Sludge	LFT	☑	☑	☑	☑	☑	☑	☑	☐	X	X	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					Container Type	G	-	-	-	-	-	-	-	-	-	-	-	
					Preservative	-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
Lucas Taylor	6/1/17 15:37		
AAR	6/1/17 1904		6/1/17 1537 / 6/1/17 1904

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:	L1719010
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:	06/12/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1719010
Report Date: 06/12/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1719010-01	UTILITY SPOILS STOCKPILE (NORTH)	SOIL	1 HORIZON WAY, EVERETT, MA	06/05/17 11:00	06/05/17
L1719010-02	UTILITY SPOILS STOCKPILE (SOUTH)	SOIL	1 HORIZON WAY, EVERETT, MA	06/05/17 11:15	06/05/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719010
Report Date: 06/12/17

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.

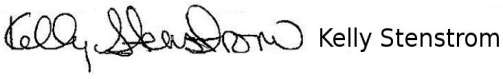
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 06/12/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1719010
Project Number: 171521.52
Report Date: 06/12/17

SAMPLE RESULTS

Lab ID: L1719010-01
Client ID: UTILITY SPOILS STOCKPILE (NORT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/05/17 11:00
Date Received: 06/05/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/09/17 04:17

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	06/10/17 13:04	06/12/17 10:28	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1719010
Project Number: 171521.52
Report Date: 06/12/17

SAMPLE RESULTS

Lab ID: L1719010-02
Client ID: UTILITY SPOILS STOCKPILE (SOUT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/05/17 11:15
Date Received: 06/05/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/09/17 04:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/10/17 13:04	06/12/17 10:32	EPA 3015	1,6010C	PS
Lead, TCLP	9.75		mg/l	0.500	--	1	06/10/17 13:04	06/12/17 10:32	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719010
Report Date: 06/12/17

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: WG1011896-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/10/17 13:04	06/12/17 11:10	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	06/10/17 13:04	06/12/17 11:10	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/09/17 04:17

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1719010

Report Date: 06/12/17

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: WG1011896-2								
Arsenic, TCLP	110		-		75-125	-		20
Lead, TCLP	99		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719010
Report Date: 06/12/17

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: WG1011896-3 QC Sample: L1718368-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.31	109		-	-		75-125	-		20
Lead, TCLP	0.687	5.1	5.68	98		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719010
Report Date: 06/12/17

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: WG1011896-4 QC Sample: L1718368-01 Client ID: DUP Sample						
Lead, TCLP	0.687	0.741	mg/l	8		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719010
Report Date: 06/12/17

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(*)
L1719010-01A	Glass 250ml/8oz unpreserved	A	NA		4.8	Y	Absent		-
L1719010-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.8	Y	Absent		PB-CI(180)
L1719010-01X9	Tumble Vessel	A	NA		4.8	Y	Absent		-
L1719010-02A	Glass 250ml/8oz unpreserved	A	NA		4.8	Y	Absent		-
L1719010-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.8	Y	Absent		AS-CI(180),PB-CI(180)
L1719010-02X9	Tumble Vessel	A	NA		4.8	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1719010
Project Number:	171521.52	**Report Date:**	06/12/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1719010
Project Number:	171521.52	**Report Date:**	06/12/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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
Project Number: 171521.52
Lab Number: L1719010
Report Date: 06/12/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

DM 6/9/17 L1719010

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: 6/5/17

ALPHA Job #: L1719010

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
WYNN EVERETT
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
TCLP 20x rule applies for MCP-14 meatals

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)

TOTAL # BOTTLES

Sample Specific Comments

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	TCLP-AS				
19010 -01	Utility Spoils Stockpile (North)	6/5/17	1100	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	X					
-02	Utility Spoils Stockpile (South)	6/5/17	1115	Soil	DRS	☒	☒	☒	☒	☒	☒	☒	X	X				
						☐	☐	☐	☐	☐	☐	☐						
						☐	☐	☐	☐	☐	☐	☐						
						☐	☐	☐	☐	☐	☐	☐						
						☐	☐	☐	☐	☐	☐	☐						
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						☐	☐	☐	☐	☐	☐	☐						
						☐	☐	☐	☐	☐	☐	☐						
						☐	☐	☐	☐	☐	☐	☐						

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/5/17 @12:55		
JAL.	6/5/17 1735		6/5/17 1300
			6/5/17 2359

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:	L1719073
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:	06/14/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1719073
Report Date: 06/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1719073-01	FUEL TANK_SB1, SB3, SB4 (NORTH)	SOIL	1 HORIZON WAY, EVERETT, MA	06/08/17 10:30	06/08/17
L1719073-02	FUEL TANK_SB1, SB3, SB4 (SOUTH)	SOIL	1 HORIZON WAY, EVERETT, MA	06/08/17 10:35	06/08/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719073
Report Date: 06/14/17

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:  Melissa Cripps

Title: Technical Director/Representative Date: 06/14/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1719073
Project Number: 171521.52
Report Date: 06/14/17

SAMPLE RESULTS

Lab ID: L1719073-01
Client ID: FUEL TANK_SB1, SB3, SB4 (NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/08/17 10:30
Date Received: 06/08/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/09/17 14:59

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	65.9		mg/l	0.500	--	1	06/10/17 15:49	06/12/17 18:07	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1719073
Project Number: 171521.52
Report Date: 06/14/17

SAMPLE RESULTS

Lab ID: L1719073-02
Client ID: FUEL TANK_SB1, SB3, SB4 (SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/08/17 10:35
Date Received: 06/08/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/09/17 14:59

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	1.25		mg/l	0.500	--	1	06/10/17 15:49	06/12/17 18:11	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719073
Report Date: 06/14/17

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: WG1011939-1										
Lead, TCLP	ND		mg/l	0.500	--	1	06/10/17 15:49	06/12/17 17:34	1,6010C	AB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/09/17 14:59

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1719073

Report Date: 06/14/17

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: WG1011939-2								
Lead, TCLP	97		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719073
Report Date: 06/14/17

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: WG1011939-3 QC Sample: L1718499-01 Client ID: MS Sample												
Lead, TCLP	1.83	5.1	7.22	106		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719073
Report Date: 06/14/17

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: WG1011939-4 QC Sample: L1718499-01 Client ID: DUP Sample						
Lead, TCLP	1.83	1.81	mg/l	1		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719073
Report Date: 06/14/17

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(*)
L1719073-01A	Glass 250ml/8oz unpreserved	A	NA		4.8	Y	Absent		-
L1719073-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.8	Y	Absent		PB-CI(180)
L1719073-01X9	Tumble Vessel	A	NA		4.8	Y	Absent		-
L1719073-02A	Glass 500ml/16oz unpreserved	A	NA		4.8	Y	Absent		-
L1719073-02E	Plastic 120ml HNO3 preserved Extracts	A	NA		4.8	Y	Absent		PB-CI(180)
L1719073-02X9	Tumble Vessel	A	NA		4.8	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1719073
Project Number:	171521.52	**Report Date:**	06/14/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1719073
Project Number:	171521.52	**Report Date:**	06/14/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1719073
Project Number:	171521.52	**Report Date:**	06/14/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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: 6/8/17

ALPHA Job #: L1719073

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

ANALYSIS

TCLP Lead (Pb)

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

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP Lead (Pb)	TOTAL # BOTTLES	Sample Specific Comments
19073-01	Fuel Tank_SB1, SB3, SB4 (North)	6/8/17	10:30	Soil	DRS	☒		
02	Fuel Tank_SB1, SB3, SB4 (South)	6/8/17	10:35	Soil	DRS	☒		
						☐		
						☐		
						☐		
						☐		
						☐		
						☐		
						☐		
						☐		
						☐		

Container Type	AG	-	-	-	-	-	-	-	-	-	-	-		
Preservative	NP	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/8/17 @ 12:05		6/8/17 1205
	6/8/17 1834		6/8/17 1834

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:	L1719460
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:	06/14/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1719460
Report Date: 06/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1719460-01	G-K 20/G19 (3.3-6.6)	SOIL	1 HORIZON WAY, EVERETT, MA	06/12/17 10:45	06/12/17
L1719460-02	G-K 20/H19 (3.3-6.6)	SOIL	1 HORIZON WAY, EVERETT, MA	06/12/17 10:55	06/12/17
L1719460-03	G-K 20/I19 (3.3-6.6)	SOIL	1 HORIZON WAY, EVERETT, MA	06/12/17 11:00	06/12/17
L1719460-04	G-K 20/J19 (3.3-6.6)	SOIL	1 HORIZON WAY, EVERETT, MA	06/12/17 11:15	06/12/17
L1719460-05	K19/L18 (3.3-6.6)	SOIL	1 HORIZON WAY, EVERETT, MA	06/12/17 11:30	06/12/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719460
Report Date: 06/14/17

Case Narrative

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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: 06/14/17

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719460
Report Date: 06/14/17

SAMPLE RESULTS

Lab ID: L1719460-01
Client ID: G-K 20/G19 (3.3-6.6)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/12/17 10:45
Date Received: 06/12/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/13/17 04:18

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	06/14/17 08:00	06/14/17 11:27	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1719460
Project Number: 171521.52
Report Date: 06/14/17

SAMPLE RESULTS

Lab ID: L1719460-02
Client ID: G-K 20/H19 (3.3-6.6)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/12/17 10:55
Date Received: 06/12/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/13/17 04:18

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	06/14/17 08:00	06/14/17 11:31	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719460
Report Date: 06/14/17

SAMPLE RESULTS

Lab ID: L1719460-03
Client ID: G-K 20/I19 (3.3-6.6)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/12/17 11:00
Date Received: 06/12/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/13/17 04:18

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	06/14/17 08:00	06/14/17 10:37	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719460
Report Date: 06/14/17

SAMPLE RESULTS

Lab ID: L1719460-04
Client ID: G-K 20/J19 (3.3-6.6)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/12/17 11:15
Date Received: 06/12/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/13/17 04:18

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	06/14/17 08:00	06/14/17 10:41	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1719460
Project Number: 171521.52
Report Date: 06/14/17

SAMPLE RESULTS

Lab ID: L1719460-05
Client ID: K19/L18 (3.3-6.6)
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/12/17 11:30
Date Received: 06/12/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/13/17 04:18

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	06/14/17 08:00	06/14/17 10:45	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719460
Report Date: 06/14/17

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): 01-05 Batch: WG1012912-1										
Lead, TCLP	ND		mg/l	0.500	--	1	06/14/17 08:00	06/14/17 11:02	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/13/17 04:18

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1719460

Report Date: 06/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1012912-2								
Lead, TCLP	102		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719460
Report Date: 06/14/17

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): 01-05 QC Batch ID: WG1012912-3 QC Sample: L1719537-06 Client ID: MS Sample												
Lead, TCLP	ND	5.1	5.03	99		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719460
Report Date: 06/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1012912-4 QC Sample: L1719537-06 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719460
Report Date: 06/14/17

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(*)
L1719460-01A	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		-
L1719460-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.2	Y	Absent		PB-CI(180)
L1719460-01X9	Tumble Vessel	A	NA		4.2	Y	Absent		-
L1719460-02A	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		-
L1719460-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.2	Y	Absent		PB-CI(180)
L1719460-02X9	Tumble Vessel	A	NA		4.2	Y	Absent		-
L1719460-03A	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		-
L1719460-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.2	Y	Absent		PB-CI(180)
L1719460-03X9	Tumble Vessel	A	NA		4.2	Y	Absent		-
L1719460-04A	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		-
L1719460-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.2	Y	Absent		PB-CI(180)
L1719460-04X9	Tumble Vessel	A	NA		4.2	Y	Absent		-
L1719460-05A	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		-
L1719460-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.2	Y	Absent		PB-CI(180)
L1719460-05X9	Tumble Vessel	A	NA		4.2	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1719460
Project Number:	171521.52	**Report Date:**	06/14/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1719460
Project Number:	171521.52	**Report Date:**	06/14/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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
Project Number: 171521.52
Lab Number: L1719460
Report Date: 06/14/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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
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: 6/12/17

ALPHA Job #: L1719460

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: 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

ANALYSIS

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

TOTAL # BOTTLES

TCLP Lead

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
19460 -01	G-K 20/G19 (3.3-6.6)	6/12/17	10:45	Soil	DRS
-02	G-K 20/H19 (3.3-6.6)	6/12/17	10:55	Soil	DRS
-03	G-K 20/I19 (3.3-6.6)	6/12/17	11:00	Soil	DRS
-04	G-K 20/J19 (3.3-6.6)	6/12/17	11:15	Soil	DRS
-05	K19/L18 (3.3-6.6)	6/12/17	11:30	Soil	DRS

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/12/17 @	AMC	6/12/17 1242
	6/12/17 1800		6/13/17 0820

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:	L1719640
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:	06/15/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1719640
Report Date: 06/15/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1719640-01	UTILITY SPOIL SP TCLP	SOIL	1 HORIZON WAY, EVERETT, MA	06/13/17 08:00	06/13/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719640
Report Date: 06/15/17

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.

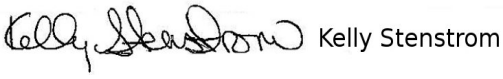
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 06/15/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1719640
Project Number: 171521.52
Report Date: 06/15/17

SAMPLE RESULTS

Lab ID: L1719640-01
Client ID: UTILITY SPOIL SP TCLP
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/13/17 08:00
Date Received: 06/13/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/14/17 03:09

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	3.26		mg/l	0.500	--	1	06/15/17 09:58	06/15/17 11:58	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1719640
Report Date: 06/15/17

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: WG1013408-1										
Lead, TCLP	ND		mg/l	0.500	--	1	06/15/17 09:58	06/15/17 11:28	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/14/17 03:09

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1719640

Report Date: 06/15/17

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: WG1013408-2								
Lead, TCLP	97		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719640
Report Date: 06/15/17

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: WG1013408-3 QC Sample: L1719141-01 Client ID: MS Sample												
Lead, TCLP	ND	5.1	5.10	100		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719640
Report Date: 06/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1013408-4 QC Sample: L1719141-01 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1719640
Report Date: 06/15/17

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(*)
L1719640-01A	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		-
L1719640-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.2	Y	Absent		PB-CI(180)
L1719640-01X9	Tumble Vessel	A	NA		2.2	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1719640
Project Number:	171521.52	**Report Date:**	06/15/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1719640
Project Number:	171521.52	**Report Date:**	06/15/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1719640
Project Number:	171521.52	**Report Date:**	06/15/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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 — 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: 6/13/17

ALPHA Job #: L1719640

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: ASAP 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

ANALYSIS

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP - Lead	Sample Specific Comments
9640 -01	Utility Spoil SP TCLP	6/13/17	0800	S	MDD	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dion	6-13-17/1350	AAL	6/13/17 1330
	6/13/17 1710		6/13/17 1952

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:	L1720089
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:	06/19/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1720089
Report Date: 06/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720089-01	FUEL TANK_DELINEATION	SOIL	1 HORIZON WAY, EVERETT, MA	06/12/17 08:30	06/15/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720089
Report Date: 06/19/17

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:  Kara Lindquist

Title: Technical Director/Representative Date: 06/19/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1720089
Project Number: 171521.52
Report Date: 06/19/17

SAMPLE RESULTS

Lab ID: L1720089-01
Client ID: FUEL TANK_DELINEATION
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/12/17 08:30
Date Received: 06/15/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/16/17 06:48

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	1.84		mg/l	0.500	--	1	06/19/17 08:43	06/19/17 11:24	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720089
Report Date: 06/19/17

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: WG1014457-1										
Lead, TCLP	ND		mg/l	0.500	--	1	06/19/17 08:43	06/19/17 11:14	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/16/17 06:48

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720089

Report Date: 06/19/17

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: WG1014457-2								
Lead, TCLP	106		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720089
Report Date: 06/19/17

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: WG1014457-3 QC Sample: L1720089-01 Client ID: FUEL TANK_DELINEATION												
Lead, TCLP	1.84	5.1	7.17	104		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720089
Report Date: 06/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1014457-4 QC Sample: L1720089-01 Client ID: FUEL TANK_DELINEATION						
Lead, TCLP	1.84	1.82	mg/l	1		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720089
Report Date: 06/19/17

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(*)
L1720089-01A	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		-
L1720089-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.2	Y	Absent		PB-CI(180)
L1720089-01X9	Tumble Vessel	A	NA		4.2	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1720089
Project Number:	171521.52	**Report Date:**	06/19/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1720089
Project Number:	171521.52	**Report Date:**	06/19/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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
Project Number: 171521.52
Lab Number: L1720089
Report Date: 06/19/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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
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: 6/15/17

ALPHA Job #: L1720089

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: RUSH Time:

Other Project Specific Requirements/Comments/Detection Limits:
Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com

Report Information — Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program: MA-MCP
Criteria: 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

TCLP Lead

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

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
20089-01	Fuel Tank_Delineation	6/12/17	08:30	Soil	DRS

TCLP Lead: ☒ for 20089-01; ☐ for all other rows

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/15/17 @ 1308	AHL	6/15/17 1308
	6/15/17 1858		6/15/17 1858

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:	L1720575
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:	06/22/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1720575
Report Date: 06/22/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720575-01	TANKS 14&10-NORTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 14:15	06/19/17
L1720575-02	TANKS 14&10-SOUTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 15:10	06/19/17
L1720575-03	TANKS 14&10-EAST	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 14:30	06/19/17
L1720575-04	TANKS 14&10-WEST	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 14:00	06/19/17
L1720575-05	TANKS 14&10-BOTTOM	SOIL	1 HORIZON WAY, EVERETT, MA	06/15/17 13:50	06/19/17
L1720575-06	TANK 6-NORTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:30	06/19/17
L1720575-07	TANK 6-SOUTH	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:35	06/19/17
L1720575-08	TANK 6-EAST	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:40	06/19/17
L1720575-09	TANK 6-WEST	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:45	06/19/17
L1720575-10	TANK 6-BOTTOM	SOIL	1 HORIZON WAY, EVERETT, MA	06/16/17 11:50	06/19/17

Project Name: WYNN EVERETT **Lab Number:** L1720575

Project Number: 171521.52 **Report Date:** 06/22/17

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).	YES
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?	YES
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: L1720575
Report Date: 06/22/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Case Narrative (continued)

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/22/17

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-01	Date Collected:	06/15/17 14:15
Client ID:	TANKS 14&10-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/21/17 16:27		
Analyst:	JM		
Percent Solids:	79%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	4.01	--	1
C9-C12 Aliphatics	ND		mg/kg	4.01	--	1
C9-C10 Aromatics	ND		mg/kg	4.01	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	4.01	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	4.01	--	1
Benzene	ND		mg/kg	0.160	--	1
Toluene	ND		mg/kg	0.160	--	1
Ethylbenzene	ND		mg/kg	0.160	--	1
p/m-Xylene	ND		mg/kg	0.160	--	1
o-Xylene	ND		mg/kg	0.160	--	1
Methyl tert butyl ether	0.090		mg/kg	0.080	--	1
Naphthalene	ND		mg/kg	0.321	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	108		70-130
2,5-Dibromotoluene-FID	109		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-01	Date Collected:	06/15/17 14:15
Client ID:	TANKS 14&10-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 17:16	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	79%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.35	--	1
C19-C36 Aliphatics	18.1		mg/kg	8.35	--	1
C11-C22 Aromatics	15.0		mg/kg	8.35	--	1
C11-C22 Aromatics, Adjusted	15.0		mg/kg	8.35	--	1
Naphthalene	ND		mg/kg	0.418	--	1
2-Methylnaphthalene	ND		mg/kg	0.418	--	1
Acenaphthylene	ND		mg/kg	0.418	--	1
Acenaphthene	ND		mg/kg	0.418	--	1
Fluorene	ND		mg/kg	0.418	--	1
Phenanthrene	ND		mg/kg	0.418	--	1
Anthracene	ND		mg/kg	0.418	--	1
Fluoranthene	ND		mg/kg	0.418	--	1
Pyrene	ND		mg/kg	0.418	--	1
Benzo(a)anthracene	ND		mg/kg	0.418	--	1
Chrysene	ND		mg/kg	0.418	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.418	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.418	--	1
Benzo(a)pyrene	ND		mg/kg	0.418	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.418	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.418	--	1
Benzo(ghi)perylene	ND		mg/kg	0.418	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-01
Client ID: TANKS 14&10-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 14:15
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	86		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-02	Date Collected:	06/15/17 15:10
Client ID:	TANKS 14&10-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 10:34		
Analyst:	JM		
Percent Solids:	95%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1.8

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.73	--	1
C9-C12 Aliphatics	ND		mg/kg	1.73	--	1
C9-C10 Aromatics	ND		mg/kg	1.73	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.73	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.73	--	1
Benzene	ND		mg/kg	0.069	--	1
Toluene	ND		mg/kg	0.069	--	1
Ethylbenzene	ND		mg/kg	0.069	--	1
p/m-Xylene	ND		mg/kg	0.069	--	1
o-Xylene	ND		mg/kg	0.069	--	1
Methyl tert butyl ether	ND		mg/kg	0.035	--	1
Naphthalene	ND		mg/kg	0.138	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	94		70-130
2,5-Dibromotoluene-FID	95		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-02	Date Collected:	06/15/17 15:10
Client ID:	TANKS 14&10-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 17:54	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	95%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.84	--	1
C19-C36 Aliphatics	ND		mg/kg	6.84	--	1
C11-C22 Aromatics	ND		mg/kg	6.84	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.84	--	1
Naphthalene	ND		mg/kg	0.342	--	1
2-Methylnaphthalene	ND		mg/kg	0.342	--	1
Acenaphthylene	ND		mg/kg	0.342	--	1
Acenaphthene	ND		mg/kg	0.342	--	1
Fluorene	ND		mg/kg	0.342	--	1
Phenanthrene	ND		mg/kg	0.342	--	1
Anthracene	ND		mg/kg	0.342	--	1
Fluoranthene	ND		mg/kg	0.342	--	1
Pyrene	ND		mg/kg	0.342	--	1
Benzo(a)anthracene	ND		mg/kg	0.342	--	1
Chrysene	ND		mg/kg	0.342	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.342	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.342	--	1
Benzo(a)pyrene	ND		mg/kg	0.342	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.342	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.342	--	1
Benzo(ghi)perylene	ND		mg/kg	0.342	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-02
Client ID: TANKS 14&10-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 15:10
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	53		40-140
2-Fluorobiphenyl	65		40-140
2-Bromonaphthalene	65		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-03	Date Collected:	06/15/17 14:30
Client ID:	TANKS 14&10-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:14		
Analyst:	JM		
Percent Solids:	91%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1.9

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.77	--	1
C9-C12 Aliphatics	ND		mg/kg	1.77	--	1
C9-C10 Aromatics	ND		mg/kg	1.77	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.77	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.77	--	1
Benzene	ND		mg/kg	0.071	--	1
Toluene	ND		mg/kg	0.071	--	1
Ethylbenzene	ND		mg/kg	0.071	--	1
p/m-Xylene	ND		mg/kg	0.071	--	1
o-Xylene	ND		mg/kg	0.071	--	1
Methyl tert butyl ether	ND		mg/kg	0.035	--	1
Naphthalene	ND		mg/kg	0.142	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	101		70-130
2,5-Dibromotoluene-FID	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-03	Date Collected:	06/15/17 14:30
Client ID:	TANKS 14&10-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 18:32	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	91%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.24	--	1
C19-C36 Aliphatics	ND		mg/kg	7.24	--	1
C11-C22 Aromatics	ND		mg/kg	7.24	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.24	--	1
Naphthalene	ND		mg/kg	0.362	--	1
2-Methylnaphthalene	ND		mg/kg	0.362	--	1
Acenaphthylene	ND		mg/kg	0.362	--	1
Acenaphthene	ND		mg/kg	0.362	--	1
Fluorene	ND		mg/kg	0.362	--	1
Phenanthrene	ND		mg/kg	0.362	--	1
Anthracene	ND		mg/kg	0.362	--	1
Fluoranthene	ND		mg/kg	0.362	--	1
Pyrene	ND		mg/kg	0.362	--	1
Benzo(a)anthracene	ND		mg/kg	0.362	--	1
Chrysene	ND		mg/kg	0.362	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.362	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.362	--	1
Benzo(a)pyrene	ND		mg/kg	0.362	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.362	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.362	--	1
Benzo(ghi)perylene	ND		mg/kg	0.362	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-03
Client ID: TANKS 14&10-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 14:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	88		40-140
2-Fluorobiphenyl	99		40-140
2-Bromonaphthalene	99		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-04	Date Collected:	06/15/17 14:00
Client ID:	TANKS 14&10-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:54		
Analyst:	JM		
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1.9

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.53	--	1
C9-C12 Aliphatics	ND		mg/kg	1.53	--	1
C9-C10 Aromatics	ND		mg/kg	1.53	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.53	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.53	--	1
Benzene	ND		mg/kg	0.061	--	1
Toluene	ND		mg/kg	0.061	--	1
Ethylbenzene	ND		mg/kg	0.061	--	1
p/m-Xylene	ND		mg/kg	0.061	--	1
o-Xylene	ND		mg/kg	0.061	--	1
Methyl tert butyl ether	ND		mg/kg	0.031	--	1
Naphthalene	ND		mg/kg	0.123	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	93		70-130
2,5-Dibromotoluene-FID	94		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-04	Date Collected:	06/15/17 14:00
Client ID:	TANKS 14&10-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 19:10	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.71	--	1
C19-C36 Aliphatics	ND		mg/kg	6.71	--	1
C11-C22 Aromatics	ND		mg/kg	6.71	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.71	--	1
Naphthalene	ND		mg/kg	0.335	--	1
2-Methylnaphthalene	ND		mg/kg	0.335	--	1
Acenaphthylene	ND		mg/kg	0.335	--	1
Acenaphthene	ND		mg/kg	0.335	--	1
Fluorene	ND		mg/kg	0.335	--	1
Phenanthrene	ND		mg/kg	0.335	--	1
Anthracene	ND		mg/kg	0.335	--	1
Fluoranthene	ND		mg/kg	0.335	--	1
Pyrene	ND		mg/kg	0.335	--	1
Benzo(a)anthracene	ND		mg/kg	0.335	--	1
Chrysene	ND		mg/kg	0.335	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.335	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.335	--	1
Benzo(a)pyrene	ND		mg/kg	0.335	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.335	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.335	--	1
Benzo(ghi)perylene	ND		mg/kg	0.335	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-04
Client ID: TANKS 14&10-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/15/17 14:00
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	75		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-05	Date Collected:	06/15/17 13:50
Client ID:	TANKS 14&10-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 12:34		
Analyst:	JM		
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:2.0

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	1.46	--	1
C9-C12 Aliphatics	ND		mg/kg	1.46	--	1
C9-C10 Aromatics	ND		mg/kg	1.46	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	1.46	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	1.46	--	1
Benzene	ND		mg/kg	0.058	--	1
Toluene	ND		mg/kg	0.058	--	1
Ethylbenzene	ND		mg/kg	0.058	--	1
p/m-Xylene	ND		mg/kg	0.058	--	1
o-Xylene	ND		mg/kg	0.058	--	1
Methyl tert butyl ether	ND		mg/kg	0.029	--	1
Naphthalene	ND		mg/kg	0.117	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	89		70-130
2,5-Dibromotoluene-FID	90		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-05	Date Collected:	06/15/17 13:50
Client ID:	TANKS 14&10-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 19:48	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.72	--	1
C19-C36 Aliphatics	ND		mg/kg	6.72	--	1
C11-C22 Aromatics	ND		mg/kg	6.72	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.72	--	1
Naphthalene	ND		mg/kg	0.336	--	1
2-Methylnaphthalene	ND		mg/kg	0.336	--	1
Acenaphthylene	ND		mg/kg	0.336	--	1
Acenaphthene	ND		mg/kg	0.336	--	1
Fluorene	ND		mg/kg	0.336	--	1
Phenanthrene	ND		mg/kg	0.336	--	1
Anthracene	ND		mg/kg	0.336	--	1
Fluoranthene	ND		mg/kg	0.336	--	1
Pyrene	ND		mg/kg	0.336	--	1
Benzo(a)anthracene	ND		mg/kg	0.336	--	1
Chrysene	ND		mg/kg	0.336	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.336	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.336	--	1
Benzo(a)pyrene	ND		mg/kg	0.336	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.336	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.336	--	1
Benzo(ghi)perylene	ND		mg/kg	0.336	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-05	Date Collected:	06/15/17 13:50
Client ID:	TANKS 14&10-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	53		40-140
o-Terphenyl	67		40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	81		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-06	Date Collected:	06/16/17 11:30
Client ID:	TANK 6-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 10:31		
Analyst:	JM		
Percent Solids:	83%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	3.64	--	1
C9-C12 Aliphatics	ND		mg/kg	3.64	--	1
C9-C10 Aromatics	ND		mg/kg	3.64	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.64	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.64	--	1
Benzene	ND		mg/kg	0.146	--	1
Toluene	ND		mg/kg	0.146	--	1
Ethylbenzene	ND		mg/kg	0.146	--	1
p/m-Xylene	ND		mg/kg	0.146	--	1
o-Xylene	ND		mg/kg	0.146	--	1
Methyl tert butyl ether	ND		mg/kg	0.073	--	1
Naphthalene	ND		mg/kg	0.291	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	111		70-130
2,5-Dibromotoluene-FID	111		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-06	Date Collected:	06/16/17 11:30
Client ID:	TANK 6-NORTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 20:27	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	83%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.97	--	1
C19-C36 Aliphatics	21.8		mg/kg	7.97	--	1
C11-C22 Aromatics	25.6		mg/kg	7.97	--	1
C11-C22 Aromatics, Adjusted	24.7		mg/kg	7.97	--	1
Naphthalene	ND		mg/kg	0.398	--	1
2-Methylnaphthalene	ND		mg/kg	0.398	--	1
Acenaphthylene	ND		mg/kg	0.398	--	1
Acenaphthene	ND		mg/kg	0.398	--	1
Fluorene	ND		mg/kg	0.398	--	1
Phenanthrene	ND		mg/kg	0.398	--	1
Anthracene	ND		mg/kg	0.398	--	1
Fluoranthene	0.415		mg/kg	0.398	--	1
Pyrene	0.420		mg/kg	0.398	--	1
Benzo(a)anthracene	ND		mg/kg	0.398	--	1
Chrysene	ND		mg/kg	0.398	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.398	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.398	--	1
Benzo(a)pyrene	ND		mg/kg	0.398	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.398	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.398	--	1
Benzo(ghi)perylene	ND		mg/kg	0.398	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-06
Client ID: TANK 6-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	55		40-140
o-Terphenyl	71		40-140
2-Fluorobiphenyl	84		40-140
2-Bromonaphthalene	80		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-07	Date Collected:	06/16/17 11:35
Client ID:	TANK 6-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:10		
Analyst:	JM		
Percent Solids:	78%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	3.55	--	1
C9-C12 Aliphatics	ND		mg/kg	3.55	--	1
C9-C10 Aromatics	ND		mg/kg	3.55	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.55	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.55	--	1
Benzene	ND		mg/kg	0.142	--	1
Toluene	ND		mg/kg	0.142	--	1
Ethylbenzene	ND		mg/kg	0.142	--	1
p/m-Xylene	ND		mg/kg	0.142	--	1
o-Xylene	ND		mg/kg	0.142	--	1
Methyl tert butyl ether	ND		mg/kg	0.071	--	1
Naphthalene	ND		mg/kg	0.284	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	109		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-07	Date Collected:	06/16/17 11:35
Client ID:	TANK 6-SOUTH	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 21:05	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	78%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.22	--	1
C19-C36 Aliphatics	33.5		mg/kg	8.22	--	1
C11-C22 Aromatics	43.4		mg/kg	8.22	--	1
C11-C22 Aromatics, Adjusted	36.8		mg/kg	8.22	--	1
Naphthalene	ND		mg/kg	0.411	--	1
2-Methylnaphthalene	ND		mg/kg	0.411	--	1
Acenaphthylene	ND		mg/kg	0.411	--	1
Acenaphthene	ND		mg/kg	0.411	--	1
Fluorene	ND		mg/kg	0.411	--	1
Phenanthrene	0.723		mg/kg	0.411	--	1
Anthracene	ND		mg/kg	0.411	--	1
Fluoranthene	1.50		mg/kg	0.411	--	1
Pyrene	1.26		mg/kg	0.411	--	1
Benzo(a)anthracene	0.666		mg/kg	0.411	--	1
Chrysene	0.720		mg/kg	0.411	--	1
Benzo(b)fluoranthene	0.568		mg/kg	0.411	--	1
Benzo(k)fluoranthene	0.568		mg/kg	0.411	--	1
Benzo(a)pyrene	0.542		mg/kg	0.411	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.411	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.411	--	1
Benzo(ghi)perylene	ND		mg/kg	0.411	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-07
Client ID: TANK 6-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:35
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	70		40-140
2-Fluorobiphenyl	79		40-140
2-Bromonaphthalene	78		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-08	Date Collected:	06/16/17 11:40
Client ID:	TANK 6-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 11:50		
Analyst:	JM		
Percent Solids:	80%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	3.83	--	1
C9-C12 Aliphatics	ND		mg/kg	3.83	--	1
C9-C10 Aromatics	ND		mg/kg	3.83	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.83	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.83	--	1
Benzene	ND		mg/kg	0.153	--	1
Toluene	ND		mg/kg	0.153	--	1
Ethylbenzene	ND		mg/kg	0.153	--	1
p/m-Xylene	ND		mg/kg	0.153	--	1
o-Xylene	ND		mg/kg	0.153	--	1
Methyl tert butyl ether	0.318		mg/kg	0.077	--	1
Naphthalene	ND		mg/kg	0.306	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	105		70-130
2,5-Dibromotoluene-FID	106		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-08	Date Collected:	06/16/17 11:40
Client ID:	TANK 6-EAST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 21:43	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	80%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	18.8		mg/kg	7.88	--	1
C19-C36 Aliphatics	228		mg/kg	7.88	--	1
C11-C22 Aromatics	135		mg/kg	7.88	--	1
C11-C22 Aromatics, Adjusted	126		mg/kg	7.88	--	1
Naphthalene	ND		mg/kg	0.394	--	1
2-Methylnaphthalene	ND		mg/kg	0.394	--	1
Acenaphthylene	ND		mg/kg	0.394	--	1
Acenaphthene	ND		mg/kg	0.394	--	1
Fluorene	ND		mg/kg	0.394	--	1
Phenanthrene	0.591		mg/kg	0.394	--	1
Anthracene	ND		mg/kg	0.394	--	1
Fluoranthene	1.24		mg/kg	0.394	--	1
Pyrene	1.18		mg/kg	0.394	--	1
Benzo(a)anthracene	0.684		mg/kg	0.394	--	1
Chrysene	1.08		mg/kg	0.394	--	1
Benzo(b)fluoranthene	1.15		mg/kg	0.394	--	1
Benzo(k)fluoranthene	0.865		mg/kg	0.394	--	1
Benzo(a)pyrene	0.701		mg/kg	0.394	--	1
Indeno(1,2,3-cd)Pyrene	0.621		mg/kg	0.394	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.394	--	1
Benzo(ghi)perylene	0.524		mg/kg	0.394	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-08
Client ID: TANK 6-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:40
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	84		40-140
2-Fluorobiphenyl	97		40-140
2-Bromonaphthalene	96		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-09	Date Collected:	06/16/17 11:45
Client ID:	TANK 6-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 12:29		
Analyst:	JM		
Percent Solids:	82%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Volatile Petroleum Hydrocarbons - Westborough Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
C5-C8 Aliphatics	ND		mg/kg	3.86	--	1
C9-C12 Aliphatics	ND		mg/kg	3.86	--	1
C9-C10 Aromatics	ND		mg/kg	3.86	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	3.86	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	3.86	--	1
Benzene	ND		mg/kg	0.154	--	1
Toluene	ND		mg/kg	0.154	--	1
Ethylbenzene	ND		mg/kg	0.154	--	1
p/m-Xylene	ND		mg/kg	0.154	--	1
o-Xylene	ND		mg/kg	0.154	--	1
Methyl tert butyl ether	ND		mg/kg	0.077	--	1
Naphthalene	ND		mg/kg	0.309	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	105		70-130
2,5-Dibromotoluene-FID	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-09	Date Collected:	06/16/17 11:45
Client ID:	TANK 6-WEST	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 22:21	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	82%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	8.04	--	1
C19-C36 Aliphatics	8.71		mg/kg	8.04	--	1
C11-C22 Aromatics	33.4		mg/kg	8.04	--	1
C11-C22 Aromatics, Adjusted	32.1		mg/kg	8.04	--	1
Naphthalene	ND		mg/kg	0.402	--	1
2-Methylnaphthalene	ND		mg/kg	0.402	--	1
Acenaphthylene	ND		mg/kg	0.402	--	1
Acenaphthene	ND		mg/kg	0.402	--	1
Fluorene	ND		mg/kg	0.402	--	1
Phenanthrene	ND		mg/kg	0.402	--	1
Anthracene	ND		mg/kg	0.402	--	1
Fluoranthene	0.682		mg/kg	0.402	--	1
Pyrene	0.620		mg/kg	0.402	--	1
Benzo(a)anthracene	ND		mg/kg	0.402	--	1
Chrysene	ND		mg/kg	0.402	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.402	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.402	--	1
Benzo(a)pyrene	ND		mg/kg	0.402	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.402	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.402	--	1
Benzo(ghi)perylene	ND		mg/kg	0.402	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-09
Client ID: TANK 6-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:45
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	91		40-140
2-Fluorobiphenyl	96		40-140
2-Bromonaphthalene	94		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-10	Date Collected:	06/16/17 11:50
Client ID:	TANK 6-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	06/22/17 13:08		
Analyst:	JM		
Percent Solids:	86%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	2.88	--	1
C9-C12 Aliphatics	ND		mg/kg	2.88	--	1
C9-C10 Aromatics	ND		mg/kg	2.88	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.88	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.88	--	1
Benzene	ND		mg/kg	0.115	--	1
Toluene	ND		mg/kg	0.115	--	1
Ethylbenzene	ND		mg/kg	0.115	--	1
p/m-Xylene	ND		mg/kg	0.115	--	1
o-Xylene	ND		mg/kg	0.115	--	1
Methyl tert butyl ether	0.068		mg/kg	0.058	--	1
Naphthalene	ND		mg/kg	0.230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	102		70-130
2,5-Dibromotoluene-FID	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID:	L1720575-10	Date Collected:	06/16/17 11:50
Client ID:	TANK 6-BOTTOM	Date Received:	06/19/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	06/19/17 23:48
Analytical Date:	06/20/17 23:00	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	06/20/17
Percent Solids:	86%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	7.63	--	1
C19-C36 Aliphatics	12.7		mg/kg	7.63	--	1
C11-C22 Aromatics	31.6		mg/kg	7.63	--	1
C11-C22 Aromatics, Adjusted	30.8		mg/kg	7.63	--	1
Naphthalene	ND		mg/kg	0.381	--	1
2-Methylnaphthalene	ND		mg/kg	0.381	--	1
Acenaphthylene	ND		mg/kg	0.381	--	1
Acenaphthene	ND		mg/kg	0.381	--	1
Fluorene	ND		mg/kg	0.381	--	1
Phenanthrene	ND		mg/kg	0.381	--	1
Anthracene	ND		mg/kg	0.381	--	1
Fluoranthene	0.439		mg/kg	0.381	--	1
Pyrene	0.407		mg/kg	0.381	--	1
Benzo(a)anthracene	ND		mg/kg	0.381	--	1
Chrysene	ND		mg/kg	0.381	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.381	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.381	--	1
Benzo(a)pyrene	ND		mg/kg	0.381	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.381	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.381	--	1
Benzo(ghi)perylene	ND		mg/kg	0.381	--	1

Project Name: WYNN EVERETT
Lab Number: L1720575
Project Number: 171521.52
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-10
Client ID: TANK 6-BOTTOM
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/16/17 11:50
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	53		40-140
o-Terphenyl	88		40-140
2-Fluorobiphenyl	96		40-140
2-Bromonaphthalene	95		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 06/20/17 16:38
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 06/19/17 23:48
Cleanup Method: EPH-04-1
Cleanup Date: 06/20/17

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-10 Batch: WG1014740-1					
C9-C18 Aliphatics	ND		mg/kg	6.54	--
C19-C36 Aliphatics	ND		mg/kg	6.54	--
C11-C22 Aromatics	ND		mg/kg	6.54	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.54	--
Naphthalene	ND		mg/kg	0.327	--
2-Methylnaphthalene	ND		mg/kg	0.327	--
Acenaphthylene	ND		mg/kg	0.327	--
Acenaphthene	ND		mg/kg	0.327	--
Fluorene	ND		mg/kg	0.327	--
Phenanthrene	ND		mg/kg	0.327	--
Anthracene	ND		mg/kg	0.327	--
Fluoranthene	ND		mg/kg	0.327	--
Pyrene	ND		mg/kg	0.327	--
Benzo(a)anthracene	ND		mg/kg	0.327	--
Chrysene	ND		mg/kg	0.327	--
Benzo(b)fluoranthene	ND		mg/kg	0.327	--
Benzo(k)fluoranthene	ND		mg/kg	0.327	--
Benzo(a)pyrene	ND		mg/kg	0.327	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.327	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.327	--
Benzo(ghi)perylene	ND		mg/kg	0.327	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	50		40-140
2-Fluorobiphenyl	62		40-140
2-Bromonaphthalene	61		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 06/21/17 10:21
Analyst: JM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG1015436-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	99		70-130
2,5-Dibromotoluene-FID	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 06/22/17 09:53
Analyst: JM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 02-05 Batch: WG1015911-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	98		70-130
2,5-Dibromotoluene-FID	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 06/22/17 09:52
Analyst: JM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 06-10 Batch: WG1015927-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	102		70-130
2,5-Dibromotoluene-FID	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-10 Batch: WG1014740-2 WG1014740-3								
C9-C18 Aliphatics	70		67		40-140	4		25
C19-C36 Aliphatics	71		69		40-140	3		25
C11-C22 Aromatics	67		59		40-140	13		25
Naphthalene	57		56		40-140	2		25
2-Methylnaphthalene	57		56		40-140	2		25
Acenaphthylene	60		57		40-140	5		25
Acenaphthene	61		59		40-140	3		25
Fluorene	60		58		40-140	3		25
Phenanthrene	62		58		40-140	7		25
Anthracene	62		58		40-140	7		25
Fluoranthene	61		57		40-140	7		25
Pyrene	63		59		40-140	7		25
Benzo(a)anthracene	61		57		40-140	7		25
Chrysene	59		55		40-140	7		25
Benzo(b)fluoranthene	62		58		40-140	7		25
Benzo(k)fluoranthene	60		57		40-140	5		25
Benzo(a)pyrene	59		56		40-140	5		25
Indeno(1,2,3-cd)Pyrene	58		54		40-140	7		25
Dibenzo(a,h)anthracene	47		44		40-140	7		25
Benzo(ghi)perylene	56		52		40-140	7		25
Nonane (C9)	56		56		30-140	0		25
Decane (C10)	61		60		40-140	2		25
Dodecane (C12)	63		61		40-140	3		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-10 Batch: WG1014740-2 WG1014740-3								
Tetradecane (C14)	65		62		40-140	5		25
Hexadecane (C16)	67		64		40-140	5		25
Octadecane (C18)	68		66		40-140	3		25
Nonadecane (C19)	68		66		40-140	3		25
Eicosane (C20)	68		66		40-140	3		25
Docosane (C22)	68		66		40-140	3		25
Tetracosane (C24)	67		65		40-140	3		25
Hexacosane (C26)	67		65		40-140	3		25
Octacosane (C28)	66		64		40-140	3		25
Triacontane (C30)	65		64		40-140	2		25
Hexatriacontane (C36)	65		63		40-140	3		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	52		51		40-140
o-Terphenyl	62		58		40-140
2-Fluorobiphenyl	74		72		40-140
2-Bromonaphthalene	75		71		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG1015436-1 WG1015436-2								
C5-C8 Aliphatics	96		99		70-130	3		25
C9-C12 Aliphatics	102		104		70-130	2		25
C9-C10 Aromatics	100		102		70-130	2		25
Benzene	101		104		70-130	3		25
Toluene	102		104		70-130	2		25
Ethylbenzene	103		106		70-130	3		25
p/m-Xylene	101		104		70-130	3		25
o-Xylene	101		104		70-130	3		25
Methyl tert butyl ether	99		102		70-130	3		25
Naphthalene	99		101		70-130	2		25
1,2,4-Trimethylbenzene	100		102		70-130	2		25
Pentane	94		96		70-130	3		25
2-Methylpentane	98		101		70-130	3		25
2,2,4-Trimethylpentane	97		100		70-130	3		25
n-Nonane	101		103		30-130	2		25
n-Decane	103		105		70-130	2		25
n-Butylcyclohexane	102		104		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	96		97		70-130
2,5-Dibromotoluene-FID	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02-05 Batch: WG1015911-1 WG1015911-2								
C5-C8 Aliphatics	99		99		70-130	1		25
C9-C12 Aliphatics	105		104		70-130	1		25
C9-C10 Aromatics	102		100		70-130	2		25
Benzene	103		103		70-130	0		25
Toluene	104		103		70-130	1		25
Ethylbenzene	105		104		70-130	1		25
p/m-Xylene	104		102		70-130	2		25
o-Xylene	103		102		70-130	1		25
Methyl tert butyl ether	99		100		70-130	1		25
Naphthalene	98		98		70-130	1		25
1,2,4-Trimethylbenzene	102		101		70-130	1		25
Pentane	96		95		70-130	1		25
2-Methylpentane	101		101		70-130	0		25
2,2,4-Trimethylpentane	101		100		70-130	1		25
n-Nonane	104		103		30-130	1		25
n-Decane	106		104		70-130	2		25
n-Butylcyclohexane	106		104		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	97		95		70-130
2,5-Dibromotoluene-FID	97		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720575

Report Date: 06/22/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 06-10 Batch: WG1015927-1 WG1015927-2								
C5-C8 Aliphatics	90		93		70-130	3		25
C9-C12 Aliphatics	100		102		70-130	2		25
C9-C10 Aromatics	101		103		70-130	2		25
Benzene	93		96		70-130	3		25
Toluene	94		97		70-130	3		25
Ethylbenzene	97		100		70-130	3		25
p/m-Xylene	98		101		70-130	3		25
o-Xylene	96		99		70-130	3		25
Methyl tert butyl ether	93		96		70-130	3		25
Naphthalene	101		105		70-130	4		25
1,2,4-Trimethylbenzene	101		103		70-130	2		25
Pentane	83		86		70-130	3		25
2-Methylpentane	90		94		70-130	4		25
2,2,4-Trimethylpentane	95		98		70-130	3		25
n-Nonane	100		102		30-130	2		25
n-Decane	101		103		70-130	2		25
n-Butylcyclohexane	101		103		70-130	2		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	97		101		70-130
2,5-Dibromotoluene-FID	98		101		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-01
Client ID: TANKS 14&10-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 14:15
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.1		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-02
Client ID: TANKS 14&10-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 15:10
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-03
Client ID: TANKS 14&10-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/15/17 14:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-04
Client ID: TANKS 14&10-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 14:00
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.9		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-05
Client ID: TANKS 14&10-BOTTOM
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/15/17 13:50
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-06
Client ID: TANK 6-NORTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/16/17 11:30
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-07
Client ID: TANK 6-SOUTH
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/16/17 11:35
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-08
Client ID: TANK 6-EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/16/17 11:40
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-09
Client ID: TANK 6-WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/16/17 11:45
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720575
Report Date: 06/22/17

SAMPLE RESULTS

Lab ID: L1720575-10
Client ID: TANK 6-BOTTOM
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/16/17 11:50
Date Received: 06/19/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	06/21/17 04:48	121,2540G	DM

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1015211-1 QC Sample: L1720575-01 Client ID: TANKS 14&10-NORTH						
Solids, Total	79.1	79.2	%	0		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720575
Report Date: 06/22/17

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(*)
L1720575-01A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-01B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-02A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-02B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-03A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-03B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-04A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-04B	Glass 500ml/16oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-05A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-05B	Glass 500ml/16oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-06A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-06B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-07A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-07B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-08A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-08B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-09A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-09B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)
L1720575-10A	Vial MeOH preserved	A	NA		5.8	Y	Absent		VPH-DELUX-10(28)
L1720575-10B	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		TS(7),EPH-DELUX-10(14)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1720575
Project Number:	171521.52	**Report Date:**	06/22/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1720575
Project Number:	171521.52	**Report Date:**	06/22/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1720575
Project Number:	171521.52	**Report Date:**	06/22/17

REFERENCES

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

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

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 6/20/17

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:

ALPHA Job #: L1720575

Client Information

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

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: ~~Wynn Boston Harbor~~ WYNN EVERETT
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: ~~ASAP~~ 3-Day Rush Time:

Other Project Specific Requirements/Comments/Detection Limits:

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

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

EPH | VPH w/ targets

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

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	EPH	VPH w/ targets											
20575 -01	Tanks 14 & 10 - North	6/15/17	1415	Soil	DRS	X	X											
-02	Tanks 14 & 10 - South		1510			X	X											
-03	Tanks 14 & 10 - East		1430			X	X											
-04	Tanks 14 & 10 - West		1400			X	X											
-05	Tanks 14 & 10 - Bottom	↓	1350	↓		X	X											
-06	Tank 6 - North	6/16/17	1130			X	X											
-07	Tank 6 - South		1135			X	X											
-08	Tank 6 - East		1140			X	X											
-09	Tank 6 - West		1145			X	X											
-10	Tank 6 - Bottom	↓	1150	↓	↓	X	X											

Container Type	8oz AD	VOA	-	-	-	-	-	-	-	-	-	-
Preservative	NP	MeOH	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/16/17 @ 1700		6/16/17 1135
	6/19/17 1545		6/19/17 1545

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.

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:

ALPHA Job #: L1720575

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: ~~ASAP~~ 3-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~~ Davide.leone@gza.com

☐ These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

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

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

EPH | VPH w/ targets

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

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
20575 -01	Tanks 14 & 10 - North	6/15/17	1415	Soil	DRS
-02	Tanks 14 & 10 - South		1510		
-03	Tanks 14 & 10 - East		1430		
-04	Tanks 14 & 10 - West		1400		
-05	Tanks 14 & 10 - Bottom		1350		
-06	Tank 6 - North	6/16/17	1130		
-07	Tank 6 - South		1135		
-08	Tank 6 - East		1140		
-09	Tank 6 - West		1145		
-10	Tank 6 - Bottom		1150		

Container Type	8oz AG	VOA	-	-	-	-	-	-	-	-	-	-
Preservative	NP	MeOH	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/16/17 @ 1700	[signature] AAB	6/16/17 1135
[signature]	6/19/17 1545	[signature]	6/19/17 1545

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:	L1720963
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:	06/29/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1720963
Report Date: 06/29/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720963-01	MARINE 9A	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:00	06/21/17
L1720963-02	MARINE 9B	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:10	06/21/17
L1720963-03	MARINE 9C	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:20	06/21/17
L1720963-04	MARINE 9D	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:30	06/21/17
L1720963-05	MARINE 9E	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:40	06/21/17
L1720963-06	MARINE 9F	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:50	06/21/17
L1720963-07	MARINE 9G	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 12:00	06/21/17
L1720963-08	MARINE 9H	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 12:10	06/21/17

Project Name: WYNN EVERETT
Lab Number: L1720963
Project Number: 171521.52
Report Date: 06/29/17

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: L1720963
Report Date: 06/29/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question G:

L1720963-08: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1720963-01 through -06, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0872) and 1,4-dioxane (0.0023), as well as the average response factor for 1,4-dioxane.

The initial calibration, associated with L1720963-07 and -08, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0872) and 1,4-dioxane (0.0023), as well as the average response factor for 1,4-dioxane.

The continuing calibration standards, associated with L1720963-01 through -08, 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.

PCBs

In reference to question G:

L1720963-06, -07, and -08: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1720963-06 and -07: 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.

Project Name: WYNN EVERETT **Lab Number:** L1720963
Project Number: 171521.52 **Report Date:** 06/29/17

Case Narrative (continued)

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

L1720963-01 and -04: 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:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1720963-01 and -04: 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.

Herbicides

L1720963-01 and -08: 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:

L1720963-01 and -08: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1720963-01 and -08: The surrogate recoveries are below the acceptance criteria for dcaa (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

The WG1016448-2/-3 LCS/LCSD recoveries, associated with l1720963, are below the acceptance criteria for dinoseb (5%/3%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: 06/29/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:26
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.4	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	2.6	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.74	--	1
Chlorobenzene	ND		ug/kg	0.74	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.74	--	1
Bromodichloromethane	ND		ug/kg	0.74	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.74	--	1
1,1-Dichloropropene	ND		ug/kg	3.0	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.74	--	1
Benzene	0.96		ug/kg	0.74	--	1
Toluene	1.8		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01 Date Collected: 06/21/17 11:00

Client ID: MARINE 9A Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	2.1		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	1.5	--	1
Xylenes, Total	2.1		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	3.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	40		ug/kg	27	--	1
Carbon disulfide	12		ug/kg	3.0	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	3.0	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	3.7	--	1
1,2-Dibromoethane	ND		ug/kg	3.0	--	1
1,3-Dichloropropane	ND		ug/kg	3.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.74	--	1
Bromobenzene	ND		ug/kg	3.7	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	3.0	--	1
o-Chlorotoluene	ND		ug/kg	3.0	--	1
p-Chlorotoluene	ND		ug/kg	3.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.7	--	1
Diisopropyl Ether	ND		ug/kg	3.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.0	--	1
1,4-Dioxane	ND		ug/kg	30	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:51
Analyst: JC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.3	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.83	--	1
1,2-Dichloropropane	ND		ug/kg	2.9	--	1
Dibromochloromethane	ND		ug/kg	0.83	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.83	--	1
Chlorobenzene	ND		ug/kg	0.83	--	1
Trichlorofluoromethane	ND		ug/kg	3.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.83	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.83	--	1
Bromodichloromethane	ND		ug/kg	0.83	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.83	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.83	--	1
1,1-Dichloropropene	ND		ug/kg	3.3	--	1
Bromoform	ND		ug/kg	3.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.83	--	1
Benzene	0.93		ug/kg	0.83	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	0.83	--	1
Chloromethane	ND		ug/kg	3.3	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	1.7	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.83	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	ND		ug/kg	0.83	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02 Date Collected: 06/21/17 11:10

Client ID: MARINE 9B Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.7	--	1
p/m-Xylene	2.0		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	1.7	--	1
Xylenes, Total	2.0		ug/kg	1.7	--	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	3.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.3	--	1
Styrene	ND		ug/kg	1.7	--	1
Dichlorodifluoromethane	ND		ug/kg	8.3	--	1
Acetone	ND		ug/kg	30	--	1
Carbon disulfide	ND		ug/kg	3.3	--	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	3.3	--	1
Tetrahydrofuran	ND		ug/kg	3.3	--	1
2,2-Dichloropropane	ND		ug/kg	4.2	--	1
1,2-Dibromoethane	ND		ug/kg	3.3	--	1
1,3-Dichloropropane	ND		ug/kg	3.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.83	--	1
Bromobenzene	ND		ug/kg	4.2	--	1
n-Butylbenzene	ND		ug/kg	0.83	--	1
sec-Butylbenzene	ND		ug/kg	0.83	--	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	3.3	--	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
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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.2	--	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	33	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:20
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/25/17 12:17
Analyst: JC
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.4	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.96	--	1
1,2-Dichloropropane	ND		ug/kg	3.4	--	1
Dibromochloromethane	ND		ug/kg	0.96	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	--	1
Tetrachloroethene	ND		ug/kg	0.96	--	1
Chlorobenzene	ND		ug/kg	0.96	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.96	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	--	1
Bromodichloromethane	ND		ug/kg	0.96	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.96	--	1
1,1-Dichloropropene	ND		ug/kg	3.8	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.96	--	1
Benzene	ND		ug/kg	0.96	--	1
Toluene	ND		ug/kg	1.4	--	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	1.9	--	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
Trichloroethene	ND		ug/kg	0.96	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03 Date Collected: 06/21/17 11:20

Client ID: MARINE 9C Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	2.1		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	1.9	--	1
Xylenes, Total	2.1		ug/kg	1.9	--	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	3.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.8	--	1
Styrene	ND		ug/kg	1.9	--	1
Dichlorodifluoromethane	ND		ug/kg	9.6	--	1
Acetone	ND		ug/kg	34	--	1
Carbon disulfide	3.8		ug/kg	3.8	--	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	3.8	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	4.8	--	1
1,2-Dibromoethane	ND		ug/kg	3.8	--	1
1,3-Dichloropropane	ND		ug/kg	3.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.96	--	1
Bromobenzene	ND		ug/kg	4.8	--	1
n-Butylbenzene	ND		ug/kg	0.96	--	1
sec-Butylbenzene	ND		ug/kg	0.96	--	1
tert-Butylbenzene	ND		ug/kg	3.8	--	1
o-Chlorotoluene	ND		ug/kg	3.8	--	1
p-Chlorotoluene	ND		ug/kg	3.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.96	--	1
p-Isopropyltoluene	3.5		ug/kg	0.96	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.96	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03 Date Collected: 06/21/17 11:20

Client ID: MARINE 9C Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.8	--	1
Diisopropyl Ether	ND		ug/kg	3.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.8	--	1
1,4-Dioxane	ND		ug/kg	38	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	108		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/25/17 12:43
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.82	--	1
1,2-Dichloropropane	ND		ug/kg	2.9	--	1
Dibromochloromethane	ND		ug/kg	0.82	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.82	--	1
Chlorobenzene	ND		ug/kg	0.82	--	1
Trichlorofluoromethane	ND		ug/kg	3.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.82	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.82	--	1
Bromodichloromethane	ND		ug/kg	0.82	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	--	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	3.3	--	1
Bromoform	ND		ug/kg	3.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.82	--	1
Benzene	ND		ug/kg	0.82	--	1
Toluene	ND		ug/kg	1.2	--	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	1.6	--	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
Trichloroethene	ND		ug/kg	0.82	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04 Date Collected: 06/21/17 11:30

Client ID: MARINE 9D Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
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	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	1.6	--	1
Xylenes, Total	ND		ug/kg	1.6	--	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	3.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.3	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	8.2	--	1
Acetone	ND		ug/kg	30	--	1
Carbon disulfide	ND		ug/kg	3.3	--	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	3.3	--	1
Tetrahydrofuran	ND		ug/kg	3.3	--	1
2,2-Dichloropropane	ND		ug/kg	4.1	--	1
1,2-Dibromoethane	ND		ug/kg	3.3	--	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	4.1	--	1
n-Butylbenzene	ND		ug/kg	0.82	--	1
sec-Butylbenzene	ND		ug/kg	0.82	--	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	3.3	--	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
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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.1	--	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	33	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/25/17 13:09
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.0	--	1
Carbon tetrachloride	ND		ug/kg	0.70	--	1
1,2-Dichloropropane	ND		ug/kg	2.4	--	1
Dibromochloromethane	ND		ug/kg	0.70	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	ND		ug/kg	0.70	--	1
Chlorobenzene	ND		ug/kg	0.70	--	1
Trichlorofluoromethane	ND		ug/kg	2.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.70	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	--	1
Bromodichloromethane	ND		ug/kg	0.70	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.70	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	--	1
1,1-Dichloropropene	ND		ug/kg	2.8	--	1
Bromoform	ND		ug/kg	2.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	--	1
Benzene	ND		ug/kg	0.70	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	0.70	--	1
Chloromethane	ND		ug/kg	2.8	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.70	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
Trichloroethene	ND		ug/kg	0.70	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05 Date Collected: 06/21/17 11:40

Client ID: MARINE 9E Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
Xylenes, Total	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.70	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.70	--	1
Dibromomethane	ND		ug/kg	2.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	7.0	--	1
Acetone	53		ug/kg	25	--	1
Carbon disulfide	ND		ug/kg	2.8	--	1
Methyl ethyl ketone	ND		ug/kg	7.0	--	1
Methyl isobutyl ketone	ND		ug/kg	7.0	--	1
2-Hexanone	ND		ug/kg	7.0	--	1
Bromochloromethane	ND		ug/kg	2.8	--	1
Tetrahydrofuran	ND		ug/kg	2.8	--	1
2,2-Dichloropropane	ND		ug/kg	3.5	--	1
1,2-Dibromoethane	ND		ug/kg	2.8	--	1
1,3-Dichloropropane	ND		ug/kg	2.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	--	1
Bromobenzene	ND		ug/kg	3.5	--	1
n-Butylbenzene	ND		ug/kg	0.70	--	1
sec-Butylbenzene	ND		ug/kg	0.70	--	1
tert-Butylbenzene	ND		ug/kg	2.8	--	1
o-Chlorotoluene	ND		ug/kg	2.8	--	1
p-Chlorotoluene	ND		ug/kg	2.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	2.8	--	1
Isopropylbenzene	ND		ug/kg	0.70	--	1
p-Isopropyltoluene	ND		ug/kg	0.70	--	1
Naphthalene	ND		ug/kg	2.8	--	1
n-Propylbenzene	ND		ug/kg	0.70	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05 Date Collected: 06/21/17 11:40

Client ID: MARINE 9E Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.5	--	1
Diisopropyl Ether	ND		ug/kg	2.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.8	--	1
1,4-Dioxane	ND		ug/kg	28	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/25/17 13:34
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.78	--	1
1,2-Dichloropropane	ND		ug/kg	2.7	--	1
Dibromochloromethane	ND		ug/kg	0.78	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.78	--	1
Chlorobenzene	ND		ug/kg	0.78	--	1
Trichlorofluoromethane	ND		ug/kg	3.1	--	1
1,2-Dichloroethane	ND		ug/kg	0.78	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	--	1
Bromodichloromethane	ND		ug/kg	0.78	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	--	1
1,1-Dichloropropene	ND		ug/kg	3.1	--	1
Bromoform	ND		ug/kg	3.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Benzene	ND		ug/kg	0.78	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	0.78	--	1
Chloromethane	ND		ug/kg	3.1	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.78	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
Trichloroethene	ND		ug/kg	0.78	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06 Date Collected: 06/21/17 11:50

Client ID: MARINE 9F Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	--	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	1.6	--	1
Xylenes, Total	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.78	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.78	--	1
Dibromomethane	ND		ug/kg	3.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	7.8	--	1
Acetone	ND		ug/kg	28	--	1
Carbon disulfide	ND		ug/kg	3.1	--	1
Methyl ethyl ketone	ND		ug/kg	7.8	--	1
Methyl isobutyl ketone	ND		ug/kg	7.8	--	1
2-Hexanone	ND		ug/kg	7.8	--	1
Bromochloromethane	ND		ug/kg	3.1	--	1
Tetrahydrofuran	ND		ug/kg	3.1	--	1
2,2-Dichloropropane	ND		ug/kg	3.9	--	1
1,2-Dibromoethane	ND		ug/kg	3.1	--	1
1,3-Dichloropropane	ND		ug/kg	3.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	--	1
Bromobenzene	ND		ug/kg	3.9	--	1
n-Butylbenzene	ND		ug/kg	0.78	--	1
sec-Butylbenzene	ND		ug/kg	0.78	--	1
tert-Butylbenzene	ND		ug/kg	3.1	--	1
o-Chlorotoluene	ND		ug/kg	3.1	--	1
p-Chlorotoluene	ND		ug/kg	3.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	3.1	--	1
Isopropylbenzene	ND		ug/kg	0.78	--	1
p-Isopropyltoluene	ND		ug/kg	0.78	--	1
Naphthalene	ND		ug/kg	3.1	--	1
n-Propylbenzene	ND		ug/kg	0.78	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	--	1

Project Name: WYNN EVERETT
Lab Number: L1720963
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.9	--	1
Diisopropyl Ether	ND		ug/kg	3.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.1	--	1
1,4-Dioxane	ND		ug/kg	31	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	109		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/26/17 09:56
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.9	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.89	--	1
1,2-Dichloropropane	ND		ug/kg	3.1	--	1
Dibromochloromethane	ND		ug/kg	0.89	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	ND		ug/kg	0.89	--	1
Chlorobenzene	ND		ug/kg	0.89	--	1
Trichlorofluoromethane	ND		ug/kg	3.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.89	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.89	--	1
Bromodichloromethane	ND		ug/kg	0.89	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.89	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.89	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.89	--	1
1,1-Dichloropropene	ND		ug/kg	3.6	--	1
Bromoform	ND		ug/kg	3.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.89	--	1
Benzene	ND		ug/kg	0.89	--	1
Toluene	ND		ug/kg	1.3	--	1
Ethylbenzene	ND		ug/kg	0.89	--	1
Chloromethane	ND		ug/kg	3.6	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	1.8	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.89	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1
Trichloroethene	ND		ug/kg	0.89	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07 Date Collected: 06/21/17 12:00

Client ID: MARINE 9G Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	1.8	--	1
Xylenes, Total	ND		ug/kg	1.8	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.89	--	1
Dibromomethane	ND		ug/kg	3.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.6	--	1
Styrene	ND		ug/kg	1.8	--	1
Dichlorodifluoromethane	ND		ug/kg	8.9	--	1
Acetone	ND		ug/kg	32	--	1
Carbon disulfide	ND		ug/kg	3.6	--	1
Methyl ethyl ketone	ND		ug/kg	8.9	--	1
Methyl isobutyl ketone	ND		ug/kg	8.9	--	1
2-Hexanone	ND		ug/kg	8.9	--	1
Bromochloromethane	ND		ug/kg	3.6	--	1
Tetrahydrofuran	ND		ug/kg	3.6	--	1
2,2-Dichloropropane	ND		ug/kg	4.5	--	1
1,2-Dibromoethane	ND		ug/kg	3.6	--	1
1,3-Dichloropropane	ND		ug/kg	3.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.89	--	1
Bromobenzene	ND		ug/kg	4.5	--	1
n-Butylbenzene	ND		ug/kg	0.89	--	1
sec-Butylbenzene	ND		ug/kg	0.89	--	1
tert-Butylbenzene	ND		ug/kg	3.6	--	1
o-Chlorotoluene	ND		ug/kg	3.6	--	1
p-Chlorotoluene	ND		ug/kg	3.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.6	--	1
Isopropylbenzene	ND		ug/kg	0.89	--	1
p-Isopropyltoluene	ND		ug/kg	0.89	--	1
Naphthalene	ND		ug/kg	3.6	--	1
n-Propylbenzene	ND		ug/kg	0.89	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.5	--	1
Diisopropyl Ether	ND		ug/kg	3.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.6	--	1
1,4-Dioxane	ND		ug/kg	36	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 06/25/17 19:07
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	530	--	1
1,1-Dichloroethane	ND		ug/kg	79	--	1
Chloroform	ND		ug/kg	79	--	1
Carbon tetrachloride	ND		ug/kg	53	--	1
1,2-Dichloropropane	ND		ug/kg	180	--	1
Dibromochloromethane	ND		ug/kg	53	--	1
1,1,2-Trichloroethane	ND		ug/kg	79	--	1
Tetrachloroethene	ND		ug/kg	53	--	1
Chlorobenzene	ND		ug/kg	53	--	1
Trichlorofluoromethane	ND		ug/kg	210	--	1
1,2-Dichloroethane	ND		ug/kg	53	--	1
1,1,1-Trichloroethane	ND		ug/kg	53	--	1
Bromodichloromethane	ND		ug/kg	53	--	1
trans-1,3-Dichloropropene	ND		ug/kg	53	--	1
cis-1,3-Dichloropropene	ND		ug/kg	53	--	1
1,3-Dichloropropene, Total	ND		ug/kg	53	--	1
1,1-Dichloropropene	ND		ug/kg	210	--	1
Bromoform	ND		ug/kg	210	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	53	--	1
Benzene	ND		ug/kg	53	--	1
Toluene	ND		ug/kg	79	--	1
Ethylbenzene	ND		ug/kg	53	--	1
Chloromethane	ND		ug/kg	210	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	100	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	53	--	1
trans-1,2-Dichloroethene	ND		ug/kg	79	--	1
Trichloroethene	ND		ug/kg	53	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08 Date Collected: 06/21/17 12:10

Client ID: MARINE 9H Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	100	--	1
Xylenes, Total	ND		ug/kg	100	--	1
cis-1,2-Dichloroethene	ND		ug/kg	53	--	1
1,2-Dichloroethene, Total	ND		ug/kg	53	--	1
Dibromomethane	ND		ug/kg	210	--	1
1,2,3-Trichloropropane	ND		ug/kg	210	--	1
Styrene	ND		ug/kg	100	--	1
Dichlorodifluoromethane	ND		ug/kg	530	--	1
Acetone	ND		ug/kg	1900	--	1
Carbon disulfide	ND		ug/kg	210	--	1
Methyl ethyl ketone	ND		ug/kg	530	--	1
Methyl isobutyl ketone	ND		ug/kg	530	--	1
2-Hexanone	ND		ug/kg	530	--	1
Bromochloromethane	ND		ug/kg	210	--	1
Tetrahydrofuran	ND		ug/kg	210	--	1
2,2-Dichloropropane	ND		ug/kg	260	--	1
1,2-Dibromoethane	ND		ug/kg	210	--	1
1,3-Dichloropropane	ND		ug/kg	210	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	53	--	1
Bromobenzene	ND		ug/kg	260	--	1
n-Butylbenzene	ND		ug/kg	53	--	1
sec-Butylbenzene	ND		ug/kg	53	--	1
tert-Butylbenzene	ND		ug/kg	210	--	1
o-Chlorotoluene	ND		ug/kg	210	--	1
p-Chlorotoluene	ND		ug/kg	210	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Isopropylbenzene	ND		ug/kg	53	--	1
p-Isopropyltoluene	ND		ug/kg	53	--	1
Naphthalene	5800		ug/kg	210	--	1
n-Propylbenzene	ND		ug/kg	53	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	210	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	210	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	210	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08 Date Collected: 06/21/17 12:10

Client ID: MARINE 9H Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	260	--	1
Diisopropyl Ether	ND		ug/kg	210	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	--	1
1,4-Dioxane	ND		ug/kg	2100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:00
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG1016972-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:00
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG1016972-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:00
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG1016972-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:00
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG1016972-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:00
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1016974-5					
Methylene chloride	ND		ug/kg	500	--
1,1-Dichloroethane	ND		ug/kg	75	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	180	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	75	--
Tetrachloroethene	ND		ug/kg	50	--
Chlorobenzene	ND		ug/kg	50	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	50	--
Bromodichloromethane	ND		ug/kg	50	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	50	--
1,3-Dichloropropene, Total	ND		ug/kg	50	--
1,1-Dichloropropene	ND		ug/kg	200	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	--
Benzene	ND		ug/kg	50	--
Toluene	ND		ug/kg	75	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	100	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:00
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1016974-5					
1,2-Dichlorobenzene	ND		ug/kg	200	--
1,3-Dichlorobenzene	ND		ug/kg	200	--
1,4-Dichlorobenzene	ND		ug/kg	200	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	100	--
Xylenes, Total	ND		ug/kg	100	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	200	--
1,2,3-Trichloropropane	ND		ug/kg	200	--
Styrene	ND		ug/kg	100	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	1800	--
Carbon disulfide	ND		ug/kg	200	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	200	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	250	--
1,2-Dibromoethane	ND		ug/kg	200	--
1,3-Dichloropropane	ND		ug/kg	200	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	--
Bromobenzene	ND		ug/kg	250	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	200	--
o-Chlorotoluene	ND		ug/kg	200	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/25/17 11:00
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08 Batch: WG1016974-5					
p-Chlorotoluene	ND		ug/kg	200	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	200	--
1,2,4-Trichlorobenzene	ND		ug/kg	200	--
1,3,5-Trimethylbenzene	ND		ug/kg	200	--
1,2,4-Trimethylbenzene	ND		ug/kg	200	--
Diethyl ether	ND		ug/kg	250	--
Diisopropyl Ether	ND		ug/kg	200	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	--
1,4-Dioxane	ND		ug/kg	2000	--
2-Chloroethylvinyl ether	ND		ug/kg	1000	--
Halothane	ND		ug/kg	2000	--
Ethyl Acetate	ND		ug/kg	1000	--
Freon-113	ND		ug/kg	1000	--
Vinyl acetate	ND		ug/kg	500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/26/17 09:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1017372-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/26/17 09:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1017372-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/26/17 09:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1017372-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/26/17 09:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07 Batch: WG1017372-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG1016972-3 WG1016972-4								
Methylene chloride	101		100		70-130	1		20
1,1-Dichloroethane	111		110		70-130	1		20
Chloroform	112		112		70-130	0		20
Carbon tetrachloride	123		121		70-130	2		20
1,2-Dichloropropane	104		105		70-130	1		20
Dibromochloromethane	97		97		70-130	0		20
1,1,2-Trichloroethane	94		94		70-130	0		20
Tetrachloroethene	105		102		70-130	3		20
Chlorobenzene	97		96		70-130	1		20
Trichlorofluoromethane	124		124		70-130	0		20
1,2-Dichloroethane	108		110		70-130	2		20
1,1,1-Trichloroethane	120		120		70-130	0		20
Bromodichloromethane	106		108		70-130	2		20
trans-1,3-Dichloropropene	98		99		70-130	1		20
cis-1,3-Dichloropropene	103		106		70-130	3		20
1,1-Dichloropropene	111		110		70-130	1		20
Bromoform	92		98		70-130	6		20
1,1,2,2-Tetrachloroethane	80		86		70-130	7		20
Benzene	106		106		70-130	0		20
Toluene	100		98		70-130	2		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	106		105		70-130	1		20
Bromomethane	123		117		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG1016972-3 WG1016972-4								
Vinyl chloride	100		98		70-130	2		20
Chloroethane	106		104		70-130	2		20
1,1-Dichloroethene	110		108		70-130	2		20
trans-1,2-Dichloroethene	107		108		70-130	1		20
Trichloroethene	112		111		70-130	1		20
1,2-Dichlorobenzene	89		93		70-130	4		20
1,3-Dichlorobenzene	93		95		70-130	2		20
1,4-Dichlorobenzene	90		93		70-130	3		20
Methyl tert butyl ether	104		105		70-130	1		20
p/m-Xylene	102		100		70-130	2		20
o-Xylene	98		96		70-130	2		20
cis-1,2-Dichloroethene	105		106		70-130	1		20
Dibromomethane	102		105		70-130	3		20
1,4-Dichlorobutane	92		97		70-130	5		20
1,2,3-Trichloropropane	84		92		70-130	9		20
Styrene	99		97		70-130	2		20
Dichlorodifluoromethane	99		99		70-130	0		20
Acetone	98		102		70-130	4		20
Carbon disulfide	86		84		70-130	2		20
Methyl ethyl ketone	103		109		70-130	6		20
Methyl isobutyl ketone	86		93		70-130	8		20
2-Hexanone	79		84		70-130	6		20
Ethyl methacrylate	87		91		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG1016972-3 WG1016972-4								
Acrylonitrile	109		118		70-130	8		20
Bromochloromethane	106		105		70-130	1		20
Tetrahydrofuran	101		108		70-130	7		20
2,2-Dichloropropane	120		118		70-130	2		20
1,2-Dibromoethane	93		94		70-130	1		20
1,3-Dichloropropane	92		94		70-130	2		20
1,1,1,2-Tetrachloroethane	103		102		70-130	1		20
Bromobenzene	90		92		70-130	2		20
n-Butylbenzene	97		99		70-130	2		20
sec-Butylbenzene	96		98		70-130	2		20
tert-Butylbenzene	96		97		70-130	1		20
o-Chlorotoluene	96		98		70-130	2		20
p-Chlorotoluene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	82		91		70-130	10		20
Hexachlorobutadiene	105		108		70-130	3		20
Isopropylbenzene	94		95		70-130	1		20
p-Isopropyltoluene	97		99		70-130	2		20
Naphthalene	78		85		70-130	9		20
n-Propylbenzene	94		95		70-130	1		20
1,2,3-Trichlorobenzene	88		93		70-130	6		20
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	96		99		70-130	3		20
1,2,4-Trimethylbenzene	95		98		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG1016972-3 WG1016972-4								
trans-1,4-Dichloro-2-butene	92		104		70-130	12		20
Diethyl ether	102		106		70-130	4		20
Diisopropyl Ether	111		112		70-130	1		20
Ethyl-Tert-Butyl-Ether	109		112		70-130	3		20
Tertiary-Amyl Methyl Ether	104		106		70-130	2		20
1,4-Dioxane	92		101		70-130	9		20
2-Chloroethylvinyl ether	101		109		70-130	8		20
Halothane	115		113		70-130	2		20
Ethyl Acetate	98		105		70-130	7		20
Freon-113	117		117		70-130	0		20
Vinyl acetate	104		108		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		109		70-130
Toluene-d8	96		94		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1016974-3 WG1016974-4								
Methylene chloride	101		100		70-130	1		20
1,1-Dichloroethane	111		110		70-130	1		20
Chloroform	112		112		70-130	0		20
Carbon tetrachloride	123		121		70-130	2		20
1,2-Dichloropropane	104		105		70-130	1		20
Dibromochloromethane	97		97		70-130	0		20
1,1,2-Trichloroethane	94		94		70-130	0		20
Tetrachloroethene	105		102		70-130	3		20
Chlorobenzene	97		96		70-130	1		20
Trichlorofluoromethane	124		124		70-130	0		20
1,2-Dichloroethane	108		110		70-130	2		20
1,1,1-Trichloroethane	120		120		70-130	0		20
Bromodichloromethane	106		108		70-130	2		20
trans-1,3-Dichloropropene	98		99		70-130	1		20
cis-1,3-Dichloropropene	103		106		70-130	3		20
1,1-Dichloropropene	111		110		70-130	1		20
Bromoform	92		98		70-130	6		20
1,1,2,2-Tetrachloroethane	80		86		70-130	7		20
Benzene	106		106		70-130	0		20
Toluene	100		98		70-130	2		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	106		105		70-130	1		20
Bromomethane	123		117		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1016974-3 WG1016974-4								
Vinyl chloride	100		98		70-130	2		20
Chloroethane	106		104		70-130	2		20
1,1-Dichloroethene	110		108		70-130	2		20
trans-1,2-Dichloroethene	107		108		70-130	1		20
Trichloroethene	112		111		70-130	1		20
1,2-Dichlorobenzene	89		93		70-130	4		20
1,3-Dichlorobenzene	93		95		70-130	2		20
1,4-Dichlorobenzene	90		93		70-130	3		20
Methyl tert butyl ether	104		105		70-130	1		20
p/m-Xylene	102		100		70-130	2		20
o-Xylene	98		96		70-130	2		20
cis-1,2-Dichloroethene	105		106		70-130	1		20
Dibromomethane	102		105		70-130	3		20
1,2,3-Trichloropropane	84		92		70-130	9		20
Styrene	99		97		70-130	2		20
Dichlorodifluoromethane	99		99		70-130	0		20
Acetone	98		102		70-130	4		20
Carbon disulfide	86		84		70-130	2		20
Methyl ethyl ketone	103		109		70-130	6		20
Methyl isobutyl ketone	86		93		70-130	8		20
2-Hexanone	79		84		70-130	6		20
Bromochloromethane	106		105		70-130	1		20
Tetrahydrofuran	101		108		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1016974-3 WG1016974-4								
2,2-Dichloropropane	120		118		70-130	2		20
1,2-Dibromoethane	93		94		70-130	1		20
1,3-Dichloropropane	92		94		70-130	2		20
1,1,1,2-Tetrachloroethane	103		102		70-130	1		20
Bromobenzene	90		92		70-130	2		20
n-Butylbenzene	97		99		70-130	2		20
sec-Butylbenzene	96		98		70-130	2		20
tert-Butylbenzene	96		97		70-130	1		20
o-Chlorotoluene	96		98		70-130	2		20
p-Chlorotoluene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	82		91		70-130	10		20
Hexachlorobutadiene	105		108		70-130	3		20
Isopropylbenzene	94		95		70-130	1		20
p-Isopropyltoluene	97		99		70-130	2		20
Naphthalene	78		85		70-130	9		20
n-Propylbenzene	94		95		70-130	1		20
1,2,3-Trichlorobenzene	88		93		70-130	6		20
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	96		99		70-130	3		20
1,2,4-Trimethylbenzene	95		98		70-130	3		20
Diethyl ether	102		106		70-130	4		20
Diisopropyl Ether	111		112		70-130	1		20
Ethyl-Tert-Butyl-Ether	109		112		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08 Batch: WG1016974-3 WG1016974-4								
Tertiary-Amyl Methyl Ether	104		106		70-130	2		20
1,4-Dioxane	92		101		70-130	9		20
2-Chloroethylvinyl ether	101		109		70-130	8		20
Halothane	115		113		70-130	2		20
Ethyl Acetate	98		105		70-130	7		20
Freon-113	117		117		70-130	0		20
Vinyl acetate	104		108		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		109		70-130
Toluene-d8	96		94		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1017372-3 WG1017372-4								
Methylene chloride	108		109		70-130	1		20
1,1-Dichloroethane	117		117		70-130	0		20
Chloroform	116		118		70-130	2		20
Carbon tetrachloride	129		128		70-130	1		20
1,2-Dichloropropane	109		111		70-130	2		20
Dibromochloromethane	98		100		70-130	2		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	102		101		70-130	1		20
Chlorobenzene	94		95		70-130	1		20
Trichlorofluoromethane	**132**	Q	**132**	Q	70-130	0		20
1,2-Dichloroethane	117		118		70-130	1		20
1,1,1-Trichloroethane	126		124		70-130	2		20
Bromodichloromethane	112		115		70-130	3		20
trans-1,3-Dichloropropene	98		100		70-130	2		20
cis-1,3-Dichloropropene	109		111		70-130	2		20
1,1-Dichloropropene	112		115		70-130	3		20
Bromoform	97		99		70-130	2		20
1,1,2,2-Tetrachloroethane	88		90		70-130	2		20
Benzene	109		110		70-130	1		20
Toluene	96		98		70-130	2		20
Ethylbenzene	96		98		70-130	2		20
Chloromethane	113		114		70-130	1		20
Bromomethane	123		124		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1017372-3 WG1017372-4								
Vinyl chloride	102		102		70-130	0		20
Chloroethane	111		110		70-130	1		20
1,1-Dichloroethene	114		112		70-130	2		20
trans-1,2-Dichloroethene	111		110		70-130	1		20
Trichloroethene	114		114		70-130	0		20
1,2-Dichlorobenzene	91		91		70-130	0		20
1,3-Dichlorobenzene	94		94		70-130	0		20
1,4-Dichlorobenzene	91		92		70-130	1		20
Methyl tert butyl ether	108		111		70-130	3		20
p/m-Xylene	99		99		70-130	0		20
o-Xylene	94		96		70-130	2		20
cis-1,2-Dichloroethene	106		108		70-130	2		20
Dibromomethane	108		112		70-130	4		20
1,4-Dichlorobutane	101		101		70-130	0		20
1,2,3-Trichloropropane	90		92		70-130	2		20
Styrene	96		98		70-130	2		20
Dichlorodifluoromethane	105		104		70-130	1		20
Acetone	110		108		70-130	2		20
Carbon disulfide	90		90		70-130	0		20
Methyl ethyl ketone	116		116		70-130	0		20
Methyl isobutyl ketone	88		92		70-130	4		20
2-Hexanone	85		86		70-130	1		20
Ethyl methacrylate	87		90		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1017372-3 WG1017372-4								
Acrylonitrile	121		126		70-130	4		20
Bromochloromethane	110		111		70-130	1		20
Tetrahydrofuran	116		116		70-130	0		20
2,2-Dichloropropane	123		124		70-130	1		20
1,2-Dibromoethane	93		96		70-130	3		20
1,3-Dichloropropane	94		96		70-130	2		20
1,1,1,2-Tetrachloroethane	100		102		70-130	2		20
Bromobenzene	88		92		70-130	4		20
n-Butylbenzene	98		98		70-130	0		20
sec-Butylbenzene	97		97		70-130	0		20
tert-Butylbenzene	95		96		70-130	1		20
o-Chlorotoluene	97		99		70-130	2		20
p-Chlorotoluene	93		95		70-130	2		20
1,2-Dibromo-3-chloropropane	87		90		70-130	3		20
Hexachlorobutadiene	104		102		70-130	2		20
Isopropylbenzene	93		94		70-130	1		20
p-Isopropyltoluene	96		96		70-130	0		20
Naphthalene	79		84		70-130	6		20
n-Propylbenzene	94		95		70-130	1		20
1,2,3-Trichlorobenzene	87		90		70-130	3		20
1,2,4-Trichlorobenzene	88		89		70-130	1		20
1,3,5-Trimethylbenzene	97		97		70-130	0		20
1,2,4-Trimethylbenzene	95		98		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07 Batch: WG1017372-3 WG1017372-4								
trans-1,4-Dichloro-2-butene	101		108		70-130	7		20
Diethyl ether	110		112		70-130	2		20
Diisopropyl Ether	120		121		70-130	1		20
Ethyl-Tert-Butyl-Ether	114		118		70-130	3		20
Tertiary-Amyl Methyl Ether	107		111		70-130	4		20
1,4-Dioxane	98		102		70-130	4		20
2-Chloroethylvinyl ether	106		109		70-130	3		20
Halothane	116		117		70-130	1		20
Ethyl Acetate	113		116		70-130	3		20
Freon-113	123		125		70-130	2		20
Vinyl acetate	116		118		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	110		109		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 04:54
Analyst: PS
Percent Solids: 82%

Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

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	1100		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	370		ug/kg	200	--	1
Butyl benzyl phthalate	ND		ug/kg	200	--	1
Di-n-butylphthalate	2300		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	560		ug/kg	120	--	1
Benzo(a)pyrene	470		ug/kg	160	--	1
Benzo(b)fluoranthene	660		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01 Date Collected: 06/21/17 11:00

Client ID: MARINE 9A Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	210		ug/kg	120	--	1
Chrysene	600		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	330		ug/kg	120	--	1
Benzo(ghi)perylene	300		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	780		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	330		ug/kg	160	--	1
Pyrene	990		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	970	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		30-130
Phenol-d6	60		30-130
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	52		30-130
2,4,6-Tribromophenol	**26**	Q	30-130
4-Terphenyl-d14	46		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 05:19
Analyst: PS
Percent Solids: 72%

Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	930		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	9300	E	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	670		ug/kg	230	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	650		ug/kg	230	--	1
Butyl benzyl phthalate	ND		ug/kg	230	--	1
Di-n-butylphthalate	2000		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	3500		ug/kg	140	--	1
Benzo(a)pyrene	2900		ug/kg	180	--	1
Benzo(b)fluoranthene	3600		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02 Date Collected: 06/21/17 11:10

Client ID: MARINE 9B Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	1400		ug/kg	140	--	1
Chrysene	3400		ug/kg	140	--	1
Acenaphthylene	290		ug/kg	180	--	1
Anthracene	2000		ug/kg	140	--	1
Benzo(ghi)perylene	1800		ug/kg	180	--	1
Fluorene	830		ug/kg	230	--	1
Phenanthrene	11000	E	ug/kg	140	--	1
Dibenzo(a,h)anthracene	530		ug/kg	140	--	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	180	--	1
Pyrene	7800		ug/kg	140	--	1
Aniline	ND		ug/kg	270	--	1
4-Chloroaniline	ND		ug/kg	230	--	1
Dibenzofuran	1000		ug/kg	230	--	1
2-Methylnaphthalene	570		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	460	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		30-130
Phenol-d6	77		30-130
Nitrobenzene-d5	97		30-130
2-Fluorobiphenyl	66		30-130
2,4,6-Tribromophenol	85		30-130
4-Terphenyl-d14	63		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02 D
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/27/17 06:19
Analyst: PS
Percent Solids: 72%

Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Fluoranthene	8200		ug/kg	270	--	2
Phenanthrene	9500		ug/kg	270	--	2

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 05:45
Analyst: PS
Percent Solids: 73%

Date Collected: 06/21/17 11:20
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

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	220	--	1
Hexachlorobenzene	ND		ug/kg	140	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	1600		ug/kg	140	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	ND		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	780		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	3100		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	820		ug/kg	140	--	1
Benzo(a)pyrene	820		ug/kg	180	--	1
Benzo(b)fluoranthene	980		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03 Date Collected: 06/21/17 11:20

Client ID: MARINE 9C Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	310		ug/kg	140	--	1
Chrysene	820		ug/kg	140	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	270		ug/kg	140	--	1
Benzo(ghi)perylene	510		ug/kg	180	--	1
Fluorene	ND		ug/kg	220	--	1
Phenanthrene	780		ug/kg	140	--	1
Dibenzo(a,h)anthracene	140		ug/kg	140	--	1
Indeno(1,2,3-cd)pyrene	540		ug/kg	180	--	1
Pyrene	1400		ug/kg	140	--	1
Aniline	ND		ug/kg	270	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	270	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	140	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	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	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		30-130
Phenol-d6	82		30-130
Nitrobenzene-d5	83		30-130
2-Fluorobiphenyl	65		30-130
2,4,6-Tribromophenol	83		30-130
4-Terphenyl-d14	60		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 06:10
Analyst: PS
Percent Solids: 80%

Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	1200		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	880		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	620		ug/kg	120	--	1
Benzo(a)pyrene	570		ug/kg	170	--	1
Benzo(b)fluoranthene	770		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04 Date Collected: 06/21/17 11:30

Client ID: MARINE 9D Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	240		ug/kg	120	--	1
Chrysene	740		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	220		ug/kg	120	--	1
Benzo(ghi)perylene	360		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	670		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	390		ug/kg	170	--	1
Pyrene	1100		ug/kg	120	--	1
Aniline	ND		ug/kg	250	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	250	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	450	--	1
4-Nitrophenol	ND		ug/kg	290	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	220	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		30-130
Phenol-d6	68		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	54		30-130
2,4,6-Tribromophenol	67		30-130
4-Terphenyl-d14	43		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 06:35
Analyst: PS
Percent Solids: 84%

Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

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	1800		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	210	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Hexachloroethane	ND		ug/kg	160	--	1
Isophorone	ND		ug/kg	180	--	1
Naphthalene	200		ug/kg	200	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	2300		ug/kg	200	--	1
Butyl benzyl phthalate	ND		ug/kg	200	--	1
Di-n-butylphthalate	1200		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	970		ug/kg	120	--	1
Benzo(a)pyrene	960		ug/kg	160	--	1
Benzo(b)fluoranthene	1100		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05 Date Collected: 06/21/17 11:40

Client ID: MARINE 9E Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	430		ug/kg	120	--	1
Chrysene	960		ug/kg	120	--	1
Acenaphthylene	200		ug/kg	160	--	1
Anthracene	340		ug/kg	120	--	1
Benzo(ghi)perylene	460		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	1100		ug/kg	120	--	1
Dibenzo(a,h)anthracene	120		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	500		ug/kg	160	--	1
Pyrene	1600		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	420	--	1
4-Nitrophenol	ND		ug/kg	280	--	1
2,4-Dinitrophenol	ND		ug/kg	940	--	1
Pentachlorophenol	ND		ug/kg	390	--	1
Phenol	ND		ug/kg	200	--	1
2-Methylphenol	ND		ug/kg	200	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		30-130
Phenol-d6	90		30-130
Nitrobenzene-d5	88		30-130
2-Fluorobiphenyl	71		30-130
2,4,6-Tribromophenol	84		30-130
4-Terphenyl-d14	67		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 07:01
Analyst: PS
Percent Solids: 82%

Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

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	2300		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	5600		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	1200		ug/kg	120	--	1
Benzo(a)pyrene	1100		ug/kg	160	--	1
Benzo(b)fluoranthene	1400		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06 Date Collected: 06/21/17 11:50

Client ID: MARINE 9F Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	570		ug/kg	120	--	1
Chrysene	1200		ug/kg	120	--	1
Acenaphthylene	200		ug/kg	160	--	1
Anthracene	430		ug/kg	120	--	1
Benzo(ghi)perylene	650		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	1400		ug/kg	120	--	1
Dibenzo(a,h)anthracene	210		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	740		ug/kg	160	--	1
Pyrene	1900		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	86		30-130
Nitrobenzene-d5	94		30-130
2-Fluorobiphenyl	67		30-130
2,4,6-Tribromophenol	95		30-130
4-Terphenyl-d14	57		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 07:26
Analyst: PS
Percent Solids: 86%

Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

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	1900		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	220		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	4700		ug/kg	190	--	1
Butyl benzyl phthalate	ND		ug/kg	190	--	1
Di-n-butylphthalate	890		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	960		ug/kg	120	--	1
Benzo(a)pyrene	950		ug/kg	150	--	1
Benzo(b)fluoranthene	1200		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07 Date Collected: 06/21/17 12:00

Client ID: MARINE 9G Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	450		ug/kg	120	--	1
Chrysene	1100		ug/kg	120	--	1
Acenaphthylene	200		ug/kg	150	--	1
Anthracene	340		ug/kg	120	--	1
Benzo(ghi)perylene	510		ug/kg	150	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	1100		ug/kg	120	--	1
Dibenzo(a,h)anthracene	150		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	580		ug/kg	150	--	1
Pyrene	1600		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		30-130
Phenol-d6	86		30-130
Nitrobenzene-d5	86		30-130
2-Fluorobiphenyl	82		30-130
2,4,6-Tribromophenol	96		30-130
4-Terphenyl-d14	65		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 06/25/17 07:51
Analyst: PS
Percent Solids: 83%

Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	180		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	2800		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	210	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Hexachloroethane	ND		ug/kg	160	--	1
Isophorone	ND		ug/kg	180	--	1
Naphthalene	200		ug/kg	200	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	2900		ug/kg	200	--	1
Butyl benzyl phthalate	ND		ug/kg	200	--	1
Di-n-butylphthalate	1800		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	1500		ug/kg	120	--	1
Benzo(a)pyrene	1400		ug/kg	160	--	1
Benzo(b)fluoranthene	2000		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1720963

Project Number: 171521.52 **Report Date:** 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08 Date Collected: 06/21/17 12:10

Client ID: MARINE 9H Date Received: 06/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	690		ug/kg	120	--	1
Chrysene	1600		ug/kg	120	--	1
Acenaphthylene	210		ug/kg	160	--	1
Anthracene	590		ug/kg	120	--	1
Benzo(ghi)perylene	850		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	1800		ug/kg	120	--	1
Dibenzo(a,h)anthracene	240		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	920		ug/kg	160	--	1
Pyrene	2700		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	950	--	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	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	210	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		30-130
Phenol-d6	79		30-130
Nitrobenzene-d5	90		30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	90		30-130
4-Terphenyl-d14	56		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/25/17 01:56
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1016370-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/25/17 01:56
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1016370-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/25/17 01:56
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 06/23/17 12:46

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1016370-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		30-130
Phenol-d6	73		30-130
Nitrobenzene-d5	74		30-130
2-Fluorobiphenyl	69		30-130
2,4,6-Tribromophenol	75		30-130
4-Terphenyl-d14	73		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1016370-2 WG1016370-3								
Acenaphthene	70		73		40-140	4		30
1,2,4-Trichlorobenzene	71		78		40-140	9		30
Hexachlorobenzene	76		82		40-140	8		30
Bis(2-chloroethyl)ether	70		76		40-140	8		30
2-Chloronaphthalene	74		83		40-140	11		30
1,2-Dichlorobenzene	67		72		40-140	7		30
1,3-Dichlorobenzene	62		68		40-140	9		30
1,4-Dichlorobenzene	65		72		40-140	10		30
3,3'-Dichlorobenzidine	48		56		40-140	15		30
2,4-Dinitrotoluene	80		88		40-140	10		30
2,6-Dinitrotoluene	79		93		40-140	16		30
Azobenzene	70		75		40-140	7		30
Fluoranthene	72		78		40-140	8		30
4-Bromophenyl phenyl ether	84		91		40-140	8		30
Bis(2-chloroisopropyl)ether	60		65		40-140	8		30
Bis(2-chloroethoxy)methane	75		86		40-140	14		30
Hexachlorobutadiene	66		75		40-140	13		30
Hexachloroethane	66		71		40-140	7		30
Isophorone	77		86		40-140	11		30
Naphthalene	70		75		40-140	7		30
Nitrobenzene	76		85		40-140	11		30
Bis(2-ethylhexyl)phthalate	71		79		40-140	11		30
Butyl benzyl phthalate	70		78		40-140	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1016370-2 WG1016370-3								
Di-n-butylphthalate	66		75		40-140	13		30
Di-n-octylphthalate	72		80		40-140	11		30
Diethyl phthalate	70		76		40-140	8		30
Dimethyl phthalate	77		87		40-140	12		30
Benzo(a)anthracene	68		76		40-140	11		30
Benzo(a)pyrene	71		78		40-140	9		30
Benzo(b)fluoranthene	70		78		40-140	11		30
Benzo(k)fluoranthene	70		77		40-140	10		30
Chrysene	68		75		40-140	10		30
Acenaphthylene	75		85		40-140	13		30
Anthracene	66		75		40-140	13		30
Benzo(ghi)perylene	70		76		40-140	8		30
Fluorene	73		77		40-140	5		30
Phenanthrene	66		75		40-140	13		30
Dibenzo(a,h)anthracene	70		78		40-140	11		30
Indeno(1,2,3-cd)pyrene	72		80		40-140	11		30
Pyrene	71		78		40-140	9		30
Aniline	53		59		40-140	11		30
4-Chloroaniline	50		52		40-140	4		30
Dibenzofuran	71		79		40-140	11		30
2-Methylnaphthalene	69		77		40-140	11		30
Acetophenone	80		88		40-140	10		30
2,4,6-Trichlorophenol	87		97		30-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1016370-2 WG1016370-3								
2-Chlorophenol	76		85		30-130	11		30
2,4-Dichlorophenol	82		93		30-130	13		30
2,4-Dimethylphenol	87		98		30-130	12		30
2-Nitrophenol	84		96		30-130	13		30
4-Nitrophenol	84		94		30-130	11		30
2,4-Dinitrophenol	72		72		30-130	0		30
Pentachlorophenol	81		86		30-130	6		30
Phenol	75		82		30-130	9		30
2-Methylphenol	82		89		30-130	8		30
3-Methylphenol/4-Methylphenol	83		91		30-130	9		30
2,4,5-Trichlorophenol	87		97		30-130	11		30
Pyridine	57		60		30-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		75		30-130
Phenol-d6	74		84		30-130
Nitrobenzene-d5	76		81		30-130
2-Fluorobiphenyl	69		77		30-130
2,4,6-Tribromophenol	81		87		30-130
4-Terphenyl-d14	67		74		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 12:47
Analyst: SR
Percent Solids: 82%

Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	337000		ug/kg	38100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 13:20
Analyst: SR
Percent Solids: 72%

Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	442000		ug/kg	44900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 13:53
Analyst: SR
Percent Solids: 73%

Date Collected: 06/21/17 11:20
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	252000		ug/kg	43800	--	1

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 14:26
Analyst: SR
Percent Solids: 80%

Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	173000		ug/kg	39200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 14:59
Analyst: SR
Percent Solids: 84%

Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	173000		ug/kg	37500	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	67		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 13:53
Analyst: DG
Percent Solids: 82%

Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	306000		ug/kg	39900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 14:26
Analyst: DG
Percent Solids: 86%

Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	427000		ug/kg	36400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 06/23/17 14:59
Analyst: DG
Percent Solids: 83%

Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	412000		ug/kg	39000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 06/22/17 23:17
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 06/22/17 16:06

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-08 Batch: WG1015969-1					
TPH	ND		ug/kg	31600	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-08 Batch: WG1015969-2								
TPH	79		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	76				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 11:16
Analyst: HT
Percent Solids: 82%

Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	--	1	A
Aroclor 1221	ND		ug/kg	38.4	--	1	A
Aroclor 1232	ND		ug/kg	38.4	--	1	A
Aroclor 1242	ND		ug/kg	38.4	--	1	A
Aroclor 1248	ND		ug/kg	38.4	--	1	A
Aroclor 1254	462		ug/kg	38.4	--	1	A
Aroclor 1260	ND		ug/kg	38.4	--	1	A
Aroclor 1262	ND		ug/kg	38.4	--	1	A
Aroclor 1268	ND		ug/kg	38.4	--	1	A
PCBs, Total	462		ug/kg	38.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	30		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	**28**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 09:42
Analyst: HT
Percent Solids: 72%

Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.1	--	1	A
Aroclor 1221	ND		ug/kg	45.1	--	1	A
Aroclor 1232	ND		ug/kg	45.1	--	1	A
Aroclor 1242	ND		ug/kg	45.1	--	1	A
Aroclor 1248	ND		ug/kg	45.1	--	1	A
Aroclor 1254	191		ug/kg	45.1	--	1	A
Aroclor 1260	ND		ug/kg	45.1	--	1	A
Aroclor 1262	ND		ug/kg	45.1	--	1	A
Aroclor 1268	ND		ug/kg	45.1	--	1	A
PCBs, Total	191		ug/kg	45.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 09:55
Analyst: HT
Percent Solids: 73%

Date Collected: 06/21/17 11:20
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.5	--	1	A
Aroclor 1221	ND		ug/kg	43.5	--	1	A
Aroclor 1232	ND		ug/kg	43.5	--	1	A
Aroclor 1242	ND		ug/kg	43.5	--	1	A
Aroclor 1248	ND		ug/kg	43.5	--	1	A
Aroclor 1254	550		ug/kg	43.5	--	1	A
Aroclor 1260	ND		ug/kg	43.5	--	1	A
Aroclor 1262	ND		ug/kg	43.5	--	1	A
Aroclor 1268	ND		ug/kg	43.5	--	1	A
PCBs, Total	550		ug/kg	43.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	35		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 10:09
Analyst: HT
Percent Solids: 80%

Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.7	--	1	A
Aroclor 1221	ND		ug/kg	39.7	--	1	A
Aroclor 1232	ND		ug/kg	39.7	--	1	A
Aroclor 1242	ND		ug/kg	39.7	--	1	A
Aroclor 1248	ND		ug/kg	39.7	--	1	A
Aroclor 1254	369		ug/kg	39.7	--	1	A
Aroclor 1260	ND		ug/kg	39.7	--	1	A
Aroclor 1262	ND		ug/kg	39.7	--	1	A
Aroclor 1268	ND		ug/kg	39.7	--	1	A
PCBs, Total	369		ug/kg	39.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 10:22
Analyst: HT
Percent Solids: 84%

Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	--	1	A
Aroclor 1221	ND		ug/kg	38.5	--	1	A
Aroclor 1232	ND		ug/kg	38.5	--	1	A
Aroclor 1242	ND		ug/kg	38.5	--	1	A
Aroclor 1248	ND		ug/kg	38.5	--	1	A
Aroclor 1254	514		ug/kg	38.5	--	1	A
Aroclor 1260	ND		ug/kg	38.5	--	1	A
Aroclor 1262	ND		ug/kg	38.5	--	1	A
Aroclor 1268	ND		ug/kg	38.5	--	1	A
PCBs, Total	514		ug/kg	38.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06 D
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 11:29
Analyst: HT
Percent Solids: 82%

Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	392	--	10	A
Aroclor 1221	ND		ug/kg	392	--	10	A
Aroclor 1232	ND		ug/kg	392	--	10	A
Aroclor 1242	ND		ug/kg	392	--	10	A
Aroclor 1248	ND		ug/kg	392	--	10	A
Aroclor 1254	2520		ug/kg	392	--	10	A
Aroclor 1260	ND		ug/kg	392	--	10	A
Aroclor 1262	ND		ug/kg	392	--	10	A
Aroclor 1268	ND		ug/kg	392	--	10	A
PCBs, Total	2520		ug/kg	392	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07 D
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 11:42
Analyst: HT
Percent Solids: 86%

Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	756	--	20	A
Aroclor 1221	ND		ug/kg	756	--	20	A
Aroclor 1232	ND		ug/kg	756	--	20	A
Aroclor 1242	ND		ug/kg	756	--	20	A
Aroclor 1248	ND		ug/kg	756	--	20	A
Aroclor 1254	6240		ug/kg	756	--	20	A
Aroclor 1260	ND		ug/kg	756	--	20	A
Aroclor 1262	ND		ug/kg	756	--	20	A
Aroclor 1268	ND		ug/kg	756	--	20	A
PCBs, Total	6240		ug/kg	756	--	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08 D
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/27/17 11:56
Analyst: HT
Percent Solids: 83%

Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	191	--	5	A
Aroclor 1221	ND		ug/kg	191	--	5	A
Aroclor 1232	ND		ug/kg	191	--	5	A
Aroclor 1242	ND		ug/kg	191	--	5	A
Aroclor 1248	ND		ug/kg	191	--	5	A
Aroclor 1254	1610		ug/kg	191	--	5	A
Aroclor 1260	ND		ug/kg	191	--	5	A
Aroclor 1262	ND		ug/kg	191	--	5	A
Aroclor 1268	ND		ug/kg	191	--	5	A
PCBs, Total	1610		ug/kg	191	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 06/24/17 15:49
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 06/23/17 06:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-08 Batch: WG1016180-1						
Aroclor 1016	ND		ug/kg	31.5	--	A
Aroclor 1221	ND		ug/kg	31.5	--	A
Aroclor 1232	ND		ug/kg	31.5	--	A
Aroclor 1242	ND		ug/kg	31.5	--	A
Aroclor 1248	ND		ug/kg	31.5	--	A
Aroclor 1254	ND		ug/kg	31.5	--	A
Aroclor 1260	ND		ug/kg	31.5	--	A
Aroclor 1262	ND		ug/kg	31.5	--	A
Aroclor 1268	ND		ug/kg	31.5	--	A
PCBs, Total	ND		ug/kg	31.5	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-08 Batch: WG1016180-2 WG1016180-3									
Aroclor 1016	70		69		40-140	1		30	A
Aroclor 1260	64		50		40-140	25		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		77		30-150	A
Decachlorobiphenyl	60		63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		84		30-150	B
Decachlorobiphenyl	62		65		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01 D
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 15:23
Analyst: KEG
Percent Solids: 82%

Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	192	--	20	A
Lindane	ND		ug/kg	64.2	--	20	A
Alpha-BHC	ND		ug/kg	80.2	--	20	A
Beta-BHC	ND		ug/kg	192	--	20	A
Heptachlor	ND		ug/kg	96.2	--	20	A
Aldrin	ND		ug/kg	192	--	20	A
Heptachlor epoxide	ND		ug/kg	361	--	20	A
Endrin	ND		ug/kg	80.2	--	20	A
Endrin ketone	ND		ug/kg	192	--	20	A
Dieldrin	ND		ug/kg	120	--	20	A
4,4'-DDE	ND		ug/kg	192	--	20	A
4,4'-DDD	ND		ug/kg	192	--	20	A
4,4'-DDT	ND		ug/kg	361	--	20	B
Endosulfan I	ND		ug/kg	192	--	20	A
Endosulfan II	ND		ug/kg	192	--	20	B
Endosulfan sulfate	ND		ug/kg	80.2	--	20	A
Methoxychlor	ND		ug/kg	361	--	20	A
Chlordane	ND		ug/kg	1560	--	20	A
Hexachlorobenzene	ND		ug/kg	192	--	20	A
Toxaphene	ND		ug/kg	3610	--	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 EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01 D
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/29/17 10:29
Analyst: SL
Percent Solids: 82%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	200000	--	50	A
MCPA	ND		ug/kg	200000	--	50	A
Dalapon	ND		ug/kg	2000	--	50	A
Dicamba	ND		ug/kg	2000	--	50	A
Dichloroprop	ND		ug/kg	2000	--	50	A
2,4-D	ND		ug/kg	2000	--	50	A
2,4-DB	ND		ug/kg	2000	--	50	A
2,4,5-T	ND		ug/kg	2000	--	50	A
2,4,5-TP (Silvex)	ND		ug/kg	2000	--	50	A
Dinoseb	ND		ug/kg	2000	--	50	A

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: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 10:41
Analyst: KEG
Percent Solids: 72%

Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.9	--	1	A
Lindane	ND		ug/kg	3.62	--	1	A
Alpha-BHC	ND		ug/kg	4.53	--	1	A
Beta-BHC	ND		ug/kg	10.9	--	1	A
Heptachlor	ND		ug/kg	5.43	--	1	A
Aldrin	ND		ug/kg	10.9	--	1	A
Heptachlor epoxide	ND		ug/kg	20.4	--	1	A
Endrin	ND		ug/kg	4.53	--	1	A
Endrin ketone	ND		ug/kg	10.9	--	1	A
Dieldrin	11.6		ug/kg	6.79	--	1	A
4,4'-DDE	ND		ug/kg	10.9	--	1	A
4,4'-DDD	ND		ug/kg	10.9	--	1	A
4,4'-DDT	30.4	P	ug/kg	20.4	--	1	B
Endosulfan I	ND		ug/kg	10.9	--	1	A
Endosulfan II	ND	PI	ug/kg	10.9	--	1	A
Endosulfan sulfate	ND		ug/kg	4.53	--	1	A
Methoxychlor	ND		ug/kg	20.4	--	1	A
Chlordane	ND		ug/kg	88.3	--	1	A
Hexachlorobenzene	ND		ug/kg	10.9	--	1	A
Toxaphene	ND		ug/kg	204	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/24/17 14:41
Analyst: CD
Percent Solids: 72%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	99		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 10:58
Analyst: KEG
Percent Solids: 73%

Date Collected: 06/21/17 11:20
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.8	--	1	A
Lindane	ND		ug/kg	3.61	--	1	A
Alpha-BHC	ND		ug/kg	4.51	--	1	A
Beta-BHC	ND		ug/kg	10.8	--	1	A
Heptachlor	ND		ug/kg	5.41	--	1	A
Aldrin	ND		ug/kg	10.8	--	1	A
Heptachlor epoxide	ND		ug/kg	20.3	--	1	A
Endrin	ND		ug/kg	4.51	--	1	A
Endrin ketone	ND		ug/kg	10.8	--	1	A
Dieldrin	30.5	P	ug/kg	6.77	--	1	A
4,4'-DDE	ND		ug/kg	10.8	--	1	A
4,4'-DDD	ND		ug/kg	10.8	--	1	A
4,4'-DDT	20.8	PI	ug/kg	20.3	--	1	A
Endosulfan I	ND		ug/kg	10.8	--	1	A
Endosulfan II	ND	PI	ug/kg	10.8	--	1	A
Endosulfan sulfate	ND		ug/kg	4.51	--	1	A
Methoxychlor	ND		ug/kg	20.3	--	1	A
Chlordane	ND		ug/kg	88.0	--	1	A
Hexachlorobenzene	ND		ug/kg	10.8	--	1	A
Toxaphene	ND		ug/kg	203	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	48		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/24/17 15:01
Analyst: CD
Percent Solids: 73%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 11:20
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	71		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/24/17 15:20
Analyst: CD
Percent Solids: 80%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4100	--	1	A
MCPA	ND		ug/kg	4100	--	1	A
Dalapon	ND		ug/kg	41	--	1	A
Dicamba	ND		ug/kg	41	--	1	A
Dichloroprop	ND		ug/kg	41	--	1	A
2,4-D	ND		ug/kg	41	--	1	A
2,4-DB	ND		ug/kg	41	--	1	A
2,4,5-T	ND		ug/kg	41	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	41	--	1	A
Dinoseb	ND		ug/kg	41	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	96		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04 D
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 15:39
Analyst: KEG
Percent Solids: 80%

Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	486	--	50	A
Lindane	ND		ug/kg	162	--	50	A
Alpha-BHC	ND		ug/kg	202	--	50	A
Beta-BHC	ND		ug/kg	486	--	50	A
Heptachlor	ND		ug/kg	243	--	50	A
Aldrin	ND		ug/kg	486	--	50	A
Heptachlor epoxide	ND		ug/kg	911	--	50	B
Endrin	ND		ug/kg	202	--	50	A
Endrin ketone	ND		ug/kg	486	--	50	A
Dieldrin	ND		ug/kg	304	--	50	A
4,4'-DDE	ND		ug/kg	486	--	50	A
4,4'-DDD	ND		ug/kg	486	--	50	A
4,4'-DDT	ND		ug/kg	911	--	50	B
Endosulfan I	ND		ug/kg	486	--	50	A
Endosulfan II	ND		ug/kg	486	--	50	B
Endosulfan sulfate	ND		ug/kg	202	--	50	A
Methoxychlor	ND		ug/kg	911	--	50	A
Chlordane	ND		ug/kg	3950	--	50	A
Hexachlorobenzene	ND		ug/kg	486	--	50	A
Toxaphene	ND		ug/kg	9110	--	50	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 EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 11:30
Analyst: KEG
Percent Solids: 84%

Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.41	--	1	A
Lindane	ND		ug/kg	3.14	--	1	A
Alpha-BHC	ND		ug/kg	3.92	--	1	A
Beta-BHC	ND		ug/kg	9.41	--	1	A
Heptachlor	ND		ug/kg	4.70	--	1	A
Aldrin	ND		ug/kg	9.41	--	1	A
Heptachlor epoxide	ND		ug/kg	17.6	--	1	A
Endrin	ND		ug/kg	3.92	--	1	A
Endrin ketone	ND		ug/kg	9.41	--	1	A
Dieldrin	ND	PI	ug/kg	5.88	--	1	B
4,4'-DDE	ND		ug/kg	9.41	--	1	A
4,4'-DDD	ND		ug/kg	9.41	--	1	A
4,4'-DDT	17.8	PI	ug/kg	17.6	--	1	A
Endosulfan I	ND		ug/kg	9.41	--	1	A
Endosulfan II	ND	PI	ug/kg	9.41	--	1	A
Endosulfan sulfate	ND		ug/kg	3.92	--	1	A
Methoxychlor	ND		ug/kg	17.6	--	1	A
Chlordane	ND		ug/kg	76.4	--	1	A
Hexachlorobenzene	ND		ug/kg	9.41	--	1	A
Toxaphene	ND		ug/kg	176	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/24/17 15:40
Analyst: CD
Percent Solids: 84%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3900	--	1	A
MCPA	ND		ug/kg	3900	--	1	A
Dalapon	ND		ug/kg	39	--	1	A
Dicamba	ND		ug/kg	39	--	1	A
Dichloroprop	ND		ug/kg	39	--	1	A
2,4-D	ND		ug/kg	39	--	1	A
2,4-DB	ND		ug/kg	39	--	1	A
2,4,5-T	ND		ug/kg	39	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	39	--	1	A
Dinoseb	ND		ug/kg	39	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	119		30-150	A
DCAA	73		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 11:46
Analyst: KEG
Percent Solids: 82%

Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.68	--	1	A
Lindane	ND		ug/kg	3.23	--	1	A
Alpha-BHC	ND		ug/kg	4.03	--	1	A
Beta-BHC	ND		ug/kg	9.68	--	1	A
Heptachlor	ND		ug/kg	4.84	--	1	A
Aldrin	ND		ug/kg	9.68	--	1	A
Heptachlor epoxide	ND		ug/kg	18.2	--	1	A
Endrin	ND		ug/kg	4.03	--	1	A
Endrin ketone	ND		ug/kg	9.68	--	1	A
Dieldrin	67.6	PI	ug/kg	6.05	--	1	B
4,4'-DDE	ND		ug/kg	9.68	--	1	A
4,4'-DDD	ND		ug/kg	9.68	--	1	A
4,4'-DDT	1140	E	ug/kg	18.2	--	1	A
Endosulfan I	ND		ug/kg	9.68	--	1	A
Endosulfan II	62.0	PI	ug/kg	9.68	--	1	A
Endosulfan sulfate	ND		ug/kg	4.03	--	1	A
Methoxychlor	ND		ug/kg	18.2	--	1	A
Chlordane	ND		ug/kg	78.7	--	1	A
Hexachlorobenzene	ND		ug/kg	9.68	--	1	A
Toxaphene	ND		ug/kg	182	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/24/17 16:00
Analyst: CD
Percent Solids: 82%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4000	--	1	A
MCPA	ND		ug/kg	4000	--	1	A
Dalapon	ND		ug/kg	40	--	1	A
Dicamba	ND		ug/kg	40	--	1	A
Dichloroprop	ND		ug/kg	40	--	1	A
2,4-D	ND		ug/kg	40	--	1	A
2,4-DB	ND		ug/kg	40	--	1	A
2,4,5-T	ND		ug/kg	40	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	40	--	1	A
Dinoseb	ND		ug/kg	40	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	88		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06 D
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 14:51
Analyst: KEG
Percent Solids: 82%

Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
4,4'-DDT	1280	P	ug/kg	36.3	--	2	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 12:03
Analyst: KEG
Percent Solids: 86%

Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.26	--	1	A
Lindane	ND		ug/kg	3.09	--	1	A
Alpha-BHC	ND		ug/kg	3.86	--	1	A
Beta-BHC	ND		ug/kg	9.26	--	1	A
Heptachlor	ND		ug/kg	4.63	--	1	A
Aldrin	ND		ug/kg	9.26	--	1	A
Heptachlor epoxide	ND		ug/kg	17.4	--	1	A
Endrin	ND		ug/kg	3.86	--	1	A
Endrin ketone	ND		ug/kg	9.26	--	1	A
Dieldrin	21.5	PI	ug/kg	5.79	--	1	B
4,4'-DDE	ND		ug/kg	9.26	--	1	A
4,4'-DDD	ND		ug/kg	9.26	--	1	A
4,4'-DDT	61.9	PI	ug/kg	17.4	--	1	A
Endosulfan I	ND		ug/kg	9.26	--	1	A
Endosulfan II	24.4	PI	ug/kg	9.26	--	1	A
Endosulfan sulfate	ND		ug/kg	3.86	--	1	A
Methoxychlor	ND		ug/kg	17.4	--	1	A
Chlordane	ND		ug/kg	75.2	--	1	A
Hexachlorobenzene	ND		ug/kg	9.26	--	1	A
Toxaphene	ND		ug/kg	174	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	46		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/24/17 16:19
Analyst: CD
Percent Solids: 86%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	97		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 06/27/17 12:20
Analyst: KEG
Percent Solids: 83%

Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/17 07:49
Cleanup Method: EPA 3620B
Cleanup Date: 06/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.36	--	1	A
Lindane	ND		ug/kg	3.12	--	1	A
Alpha-BHC	ND		ug/kg	3.90	--	1	A
Beta-BHC	ND		ug/kg	9.36	--	1	A
Heptachlor	ND	PI	ug/kg	4.68	--	1	A
Aldrin	ND		ug/kg	9.36	--	1	A
Heptachlor epoxide	ND		ug/kg	17.6	--	1	A
Endrin	ND		ug/kg	3.90	--	1	A
Endrin ketone	ND		ug/kg	9.36	--	1	A
Dieldrin	17.7	PI	ug/kg	5.85	--	1	B
4,4'-DDE	ND		ug/kg	9.36	--	1	A
4,4'-DDD	ND		ug/kg	9.36	--	1	A
4,4'-DDT	45.4	PI	ug/kg	17.6	--	1	A
Endosulfan I	ND		ug/kg	9.36	--	1	A
Endosulfan II	17.9	PI	ug/kg	9.36	--	1	A
Endosulfan sulfate	ND		ug/kg	3.90	--	1	A
Methoxychlor	ND		ug/kg	17.6	--	1	A
Chlordane	ND		ug/kg	76.1	--	1	A
Hexachlorobenzene	ND		ug/kg	9.36	--	1	A
Toxaphene	ND		ug/kg	176	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	45		30-150	B
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08 D
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 06/29/17 10:48
Analyst: SL
Percent Solids: 83%
Methylation Date: 06/24/17 08:00

Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	200000	--	50	A
MCPA	ND		ug/kg	200000	--	50	A
Dalapon	ND		ug/kg	2000	--	50	A
Dicamba	ND		ug/kg	2000	--	50	A
Dichloroprop	ND		ug/kg	2000	--	50	A
2,4-D	ND		ug/kg	2000	--	50	A
2,4-DB	ND		ug/kg	2000	--	50	A
2,4,5-T	ND		ug/kg	2000	--	50	A
2,4,5-TP (Silvex)	ND		ug/kg	2000	--	50	A
Dinoseb	ND		ug/kg	2000	--	50	A

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: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 06/25/17 01:07
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 06/22/17 17:56
Cleanup Method: EPA 3620B
Cleanup Date: 06/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-08 Batch: WG1016030-1						
Delta-BHC	ND		ug/kg	7.59	--	A
Lindane	ND		ug/kg	2.53	--	A
Alpha-BHC	ND		ug/kg	3.16	--	A
Beta-BHC	ND		ug/kg	7.59	--	A
Heptachlor	ND		ug/kg	3.80	--	A
Aldrin	ND		ug/kg	7.59	--	A
Heptachlor epoxide	ND		ug/kg	14.2	--	A
Endrin	ND		ug/kg	3.16	--	A
Endrin ketone	ND		ug/kg	7.59	--	A
Dieldrin	ND		ug/kg	4.74	--	A
4,4'-DDE	ND		ug/kg	7.59	--	A
4,4'-DDD	ND		ug/kg	7.59	--	A
4,4'-DDT	ND		ug/kg	14.2	--	A
Endosulfan I	ND		ug/kg	7.59	--	A
Endosulfan II	ND		ug/kg	7.59	--	A
Endosulfan sulfate	ND		ug/kg	3.16	--	A
Methoxychlor	ND		ug/kg	14.2	--	A
Chlordane	ND		ug/kg	61.7	--	A
Hexachlorobenzene	ND		ug/kg	7.59	--	A
Toxaphene	ND		ug/kg	142	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 06/24/17 13:22
Analyst: CD

Extraction Method: EPA 8151A
Extraction Date: 06/23/17 15:30

Methylation Date: 06/24/17 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-08 Batch: WG1016448-1						
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
Dinoseb	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-08 Batch: WG1016030-2 WG1016030-3									
Delta-BHC	92		81		40-140	13		30	A
Lindane	92		85		40-140	8		30	A
Alpha-BHC	97		91		40-140	6		30	A
Beta-BHC	90		84		40-140	7		30	A
Heptachlor	95		88		40-140	8		30	A
Aldrin	97		88		40-140	10		30	A
Heptachlor epoxide	92		87		40-140	6		30	A
Endrin	98		91		40-140	7		30	A
Endrin ketone	91		78		40-140	15		30	A
Dieldrin	101		95		40-140	6		30	A
4,4'-DDE	98		95		40-140	3		30	A
4,4'-DDD	89		85		40-140	5		30	A
4,4'-DDT	100		90		40-140	11		30	A
Endosulfan I	92		87		40-140	6		30	A
Endosulfan II	95		88		40-140	8		30	A
Endosulfan sulfate	69		58		40-140	17		30	A
Methoxychlor	92		82		40-140	11		30	A
Hexachlorobenzene	87		84		40-140	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-08 Batch: WG1016030-2 WG1016030-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		85		30-150	B
Decachlorobiphenyl	76		79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		80		30-150	A
Decachlorobiphenyl	94		92		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-08 Batch: WG1016030-4 WG1016030-5									
Toxaphene	87		94		40-140	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		66		30-150	B
Decachlorobiphenyl	58		64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		66		30-150	A
Decachlorobiphenyl	72		77		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-08 Batch: WG1016448-2 WG1016448-3									
MCPP	92		95		40-140	3		30	A
MCPA	69		68		40-140	1		30	A
Dalapon	58		60		40-140	3		30	A
Dicamba	70		68		40-140	3		30	A
Dichloroprop	99		89		40-140	11		30	A
2,4-D	79		70		40-140	12		30	A
2,4-DB	82		80		40-140	2		30	A
2,4,5-T	71		70		40-140	1		30	A
2,4,5-TP (Silvex)	69		69		40-140	0		30	A
Dinoseb	**5**	Q	**3**	Q	40-140	**56**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		87		30-150	A
DCAA	69		71		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 82%

Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	20.6		mg/kg	2.41	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Arsenic, Total	98.4		mg/kg	0.482	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Barium, Total	82.2		mg/kg	0.482	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.241	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Cadmium, Total	0.819		mg/kg	0.482	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Chromium, Total	24.8		mg/kg	0.482	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Lead, Total	1260		mg/kg	2.41	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Mercury, Total	8.07		mg/kg	0.381	--	5	06/23/17 10:30	06/27/17 12:21	EPA 7471B	97,7471B	MG
Nickel, Total	10.6		mg/kg	1.20	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Selenium, Total	62.3		mg/kg	2.41	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Silver, Total	1.37		mg/kg	0.482	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.41	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Vanadium, Total	20.8		mg/kg	0.482	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB
Zinc, Total	194		mg/kg	2.41	--	1	06/23/17 21:00	06/26/17 15:30	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 72%
Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	20.6		mg/kg	2.70	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Arsenic, Total	102		mg/kg	0.540	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Barium, Total	106		mg/kg	0.540	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.270	--	1	06/23/17 21:00	06/26/17 15:35	EPA 3050B	97,6010C	AB
Cadmium, Total	5.21		mg/kg	0.540	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Chromium, Total	25.8		mg/kg	0.540	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Lead, Total	823		mg/kg	2.70	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Mercury, Total	1.92		mg/kg	0.089	--	1	06/23/17 10:30	06/27/17 10:26	EPA 7471B	97,7471B	MG
Nickel, Total	9.29		mg/kg	1.35	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Selenium, Total	6.24		mg/kg	2.70	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Silver, Total	4.10		mg/kg	0.540	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.70	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Vanadium, Total	26.3		mg/kg	0.540	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS
Zinc, Total	399		mg/kg	2.70	--	1	06/23/17 21:00	06/26/17 13:27	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 73%
Date Collected: 06/21/17 11:20
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	27.7		mg/kg	2.69	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Arsenic, Total	149		mg/kg	0.539	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Barium, Total	104		mg/kg	0.539	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.269	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Cadmium, Total	2.54		mg/kg	0.539	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Chromium, Total	17.0		mg/kg	0.539	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Lead, Total	1160		mg/kg	2.69	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Mercury, Total	1.99		mg/kg	0.087	--	1	06/23/17 10:30	06/27/17 10:28	EPA 7471B	97,7471B	MG
Nickel, Total	11.6		mg/kg	1.35	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Selenium, Total	14.4		mg/kg	2.69	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Silver, Total	4.49		mg/kg	0.539	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.69	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Vanadium, Total	19.6		mg/kg	0.539	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB
Zinc, Total	388		mg/kg	2.69	--	1	06/23/17 21:00	06/26/17 15:40	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 80%
Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	13.4		mg/kg	2.44	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Arsenic, Total	51.4		mg/kg	0.488	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Barium, Total	80.3		mg/kg	0.488	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.244	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Cadmium, Total	2.80		mg/kg	0.488	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Chromium, Total	17.4		mg/kg	0.488	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Lead, Total	479		mg/kg	2.44	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Mercury, Total	1.31		mg/kg	0.079	--	1	06/23/17 10:30	06/27/17 10:30	EPA 7471B	97,7471B	MG
Nickel, Total	6.68		mg/kg	1.22	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Selenium, Total	5.87		mg/kg	2.44	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Silver, Total	3.73		mg/kg	0.488	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.44	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Vanadium, Total	19.4		mg/kg	0.488	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB
Zinc, Total	372		mg/kg	2.44	--	1	06/23/17 21:00	06/26/17 15:44	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 84%
Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	13.2		mg/kg	2.36	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Arsenic, Total	61.6		mg/kg	0.472	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Barium, Total	69.2		mg/kg	0.472	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.236	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Cadmium, Total	3.48		mg/kg	0.472	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Chromium, Total	17.2		mg/kg	0.472	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Lead, Total	483		mg/kg	2.36	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Mercury, Total	1.07		mg/kg	0.074	--	1	06/23/17 10:30	06/27/17 10:32	EPA 7471B	97,7471B	MG
Nickel, Total	7.26		mg/kg	1.18	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Selenium, Total	3.74		mg/kg	2.36	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Silver, Total	3.88		mg/kg	0.472	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.36	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Vanadium, Total	18.6		mg/kg	0.472	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB
Zinc, Total	619		mg/kg	2.36	--	1	06/23/17 21:00	06/26/17 15:49	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 82%
Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	11.4		mg/kg	2.39	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Arsenic, Total	106		mg/kg	0.478	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Barium, Total	71.4		mg/kg	0.478	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.239	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Cadmium, Total	2.24		mg/kg	0.478	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Chromium, Total	13.4		mg/kg	0.478	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Lead, Total	447		mg/kg	2.39	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Mercury, Total	1.41		mg/kg	0.080	--	1	06/23/17 10:30	06/27/17 10:34	EPA 7471B	97,7471B	MG
Nickel, Total	6.88		mg/kg	1.19	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Selenium, Total	3.90		mg/kg	2.39	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Silver, Total	1.21		mg/kg	0.478	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.39	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Vanadium, Total	18.4		mg/kg	0.478	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB
Zinc, Total	612		mg/kg	2.39	--	1	06/23/17 21:00	06/26/17 15:54	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1720963
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 86%

Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	15.4		mg/kg	2.21	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Arsenic, Total	77.2		mg/kg	0.442	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Barium, Total	72.8		mg/kg	0.442	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Beryllium, Total	0.292		mg/kg	0.221	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Cadmium, Total	4.05		mg/kg	0.442	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Chromium, Total	16.8		mg/kg	0.442	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Lead, Total	890		mg/kg	2.21	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Mercury, Total	1.77		mg/kg	0.077	--	1	06/23/17 10:30	06/27/17 10:36	EPA 7471B	97,7471B	MG
Nickel, Total	12.0		mg/kg	1.10	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Selenium, Total	9.92		mg/kg	2.21	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Silver, Total	2.40		mg/kg	0.442	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.21	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Vanadium, Total	22.3		mg/kg	0.442	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB
Zinc, Total	1110		mg/kg	2.21	--	1	06/23/17 21:00	06/26/17 15:59	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 83%
Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	22.0		mg/kg	2.37	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Arsenic, Total	84.0		mg/kg	0.475	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Barium, Total	94.8		mg/kg	0.475	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.237	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Cadmium, Total	1.37		mg/kg	0.475	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Chromium, Total	17.8		mg/kg	0.475	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Lead, Total	1560		mg/kg	2.37	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Mercury, Total	16.1		mg/kg	0.799	--	10	06/23/17 10:30	06/27/17 12:20	EPA 7471B	97,7471B	MG
Nickel, Total	8.40		mg/kg	1.19	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Selenium, Total	77.2		mg/kg	2.37	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Silver, Total	1.81		mg/kg	0.475	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Thallium, Total	ND		mg/kg	2.37	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Vanadium, Total	23.4		mg/kg	0.475	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB
Zinc, Total	416		mg/kg	2.37	--	1	06/23/17 21:00	06/26/17 16:17	EPA 3050B	97,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

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): 01-08 Batch: WG1016175-1										
Mercury, Total	ND		mg/kg	0.083	--	1	06/23/17 10:30	06/27/17 10:06	97,7471B	MG

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): 01-08 Batch: WG1016516-1										
Antimony, Total	ND		mg/kg	2.00	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Arsenic, Total	ND		mg/kg	0.400	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Barium, Total	ND		mg/kg	0.400	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Beryllium, Total	ND		mg/kg	0.200	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Chromium, Total	ND		mg/kg	0.400	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Lead, Total	ND		mg/kg	2.00	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Nickel, Total	ND		mg/kg	1.00	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Selenium, Total	ND		mg/kg	2.00	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Silver, Total	ND		mg/kg	0.400	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Thallium, Total	ND		mg/kg	2.00	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Vanadium, Total	ND		mg/kg	0.400	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB
Zinc, Total	ND		mg/kg	2.00	--	1	06/23/17 21:00	06/26/17 14:59	97,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1016175-2 WG1016175-3 SRM Lot Number: D093-540								
Mercury, Total	91		89		72-168	2		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1016516-2 WG1016516-3 SRM Lot Number: D093-540								
Antimony, Total	156		159		2-204	2		30
Arsenic, Total	81		78		70-130	4		30
Barium, Total	86		94		83-117	9		30
Beryllium, Total	88		92		83-117	4		30
Cadmium, Total	99		97		83-117	2		30
Chromium, Total	92		96		80-120	4		30
Lead, Total	95		93		82-117	2		30
Nickel, Total	98		97		83-117	1		30
Selenium, Total	94		94		78-122	0		30
Silver, Total	92		97		76-124	5		30
Thallium, Total	100		100		79-121	0		30
Vanadium, Total	96		100		78-122	4		30
Zinc, Total	98		96		83-117	2		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:00
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 11:10
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 11:20
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 11:30
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 11:40
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 11:50
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 12:00
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 12:10
Date Received: 06/21/17
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	06/25/17 00:15	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:00
Date Received: 06/21/17
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	770		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	82.2		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	9.7		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:33	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:25	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-02
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:10
Date Received: 06/21/17
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	460		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	72.4		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	6.4		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:33	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:26	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-03
Client ID: MARINE 9C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:20
Date Received: 06/21/17
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	830		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	73.4		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	6.6		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:33	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:26	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-04
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:30
Date Received: 06/21/17
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	530		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	80.0		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	6.7		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:34	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:26	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-05
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:40
Date Received: 06/21/17
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	580		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	84.4		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	5.8		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:34	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:26	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-06
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:50
Date Received: 06/21/17
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	650		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	81.7		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:34	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-07
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 12:00
Date Received: 06/21/17
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	710		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	86.0		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	6.9		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:34	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1720963-08
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 12:10
Date Received: 06/21/17
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	590		umhos/cm	10	--	1	-	06/22/17 21:37	1,9050A	AS
Solids, Total	83.4		%	0.100	NA	1	-	06/22/17 14:10	121,2540G	RI
pH (H)	6.9		SU	-	NA	1	-	06/22/17 20:41	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/23/17 15:10	1,1010A	JD
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:34	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1720963
Report Date: 06/29/17

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): 01-08 Batch: WG1016490-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:31	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1016491-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	06/23/17 22:10	06/23/17 23:22	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1720963

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1016064-1								
Specific Conductance	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1016071-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1016490-2								
Cyanide, Reactive	40		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1016491-2								
Sulfide, Reactive	93		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1016496-1								
Flash Point	102		-		96-104	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1016064-2 QC Sample: L1720963-01 Client ID: MARINE 9A						
Specific Conductance @ 25 C	770	690	umhos/cm	11		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1016071-2 QC Sample: L1720963-01 Client ID: MARINE 9A						
pH (H)	9.7	9.4	SU	3		5

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

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(*)
L1720963-01A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-01B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-01C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-01D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)
L1720963-01E	Glass 250ml/8oz unpreserved	A	NA		2.8	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)
L1720963-01F	Glass 500ml/16oz unpreserved	A	NA		2.8	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)
L1720963-02A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-02B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-02C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-02D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)
L1720963-02E	Glass 250ml/8oz unpreserved	A	NA		2.8	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)
L1720963-02F	Glass 500ml/16oz unpreserved	A	NA		2.8	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
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1720963-03A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-03B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-03C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-03D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)
L1720963-03E	Glass 250ml/8oz unpreserved	A	NA		2.8	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)
L1720963-03F	Glass 500ml/16oz unpreserved	A	NA		2.8	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)
L1720963-04A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-04B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-04C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-04D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)
L1720963-04E	Glass 250ml/8oz unpreserved	A	NA		2.8	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)
L1720963-04F	Glass 500ml/16oz unpreserved	A	NA		2.8	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)
L1720963-05A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-05B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-05C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-05D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1720963
Report Date: 06/29/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1720963-05E	Glass 250ml/8oz unpreserved	A	NA		2.8	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)
L1720963-05F	Glass 500ml/16oz unpreserved	A	NA		2.8	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)
L1720963-06A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-06B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-06C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-06D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)
L1720963-06E	Glass 250ml/8oz unpreserved	A	NA		2.8	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)
L1720963-06F	Glass 500ml/16oz unpreserved	A	NA		2.8	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)
L1720963-07A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-07B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-07C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-07D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)
L1720963-07E	Glass 250ml/8oz unpreserved	A	NA		2.8	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: L1720963
Report Date: 06/29/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1720963-07F	Glass 500ml/16oz unpreserved	A	NA		2.8	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)
L1720963-08A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-10(14)
L1720963-08B	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-08C	Vial water preserved	A	NA		2.8	Y	Absent	22-JUN-17 16:18	MCP-8260HLW-10(14)
L1720963-08D	Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		TS(7)
L1720963-08E	Glass 250ml/8oz unpreserved	A	NA		2.8	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)
L1720963-08F	Glass 500ml/16oz unpreserved	A	NA		2.8	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:**	L1720963
Project Number:	171521.52	**Report Date:**	06/29/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1720963
Project Number:	171521.52	**Report Date:**	06/29/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1720963
Project Number:	171521.52	**Report Date:**	06/29/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 6/23/17

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: 6/21/17

ALPHA Job #: L1720963

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~~ WYNN EVERETT
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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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 IGNT	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						Sample Specific Comments	TOTAL # BOTTLES
20963-01	Marine 9A	6/21/17	1100	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
02	Marine 9B	6/21/17	1110	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
03	Marine 9C	6/21/17	1120	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
04	Marine 9D	6/21/17	1130	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
05	Marine 9E	6/21/17	1140	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
06	Marine 9F	6/21/17	1150	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
07	Marine 9G	6/21/17	1200	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
08	Marine 9H	6/21/17	1210	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
Container Type						G	-	-	-	-	-	-	-	-	-	-	-		
Preservative						-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
AAL 6/21/17	6/21/17 @ 12:30	AAL	6/21/17 12:30
AAL 6/21/17	18:05		6/21/17 18:05

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.

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: 6/21/17

ALPHA Job #: L1720963

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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
20963-01	Marine 9A	6/21/17	1100	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
02	Marine 9B	6/21/17	1110	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
03	Marine 9C	6/21/17	1120	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
04	Marine 9D	6/21/17	1130	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
05	Marine 9E	6/21/17	1140	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
06	Marine 9F	6/21/17	1150	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
07	Marine 9G	6/21/17	1200	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
08	Marine 9H	6/21/17	1210	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
	Container Type					G	-	-	-	-	-	-	-	-	-	-	-		
	Preservative					-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
AAL 6/21/17	6/21/17 @ 12:30	AAL	6/21/17 12:30
AAL 6/21/17	18:05		6/21/17 18:05

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1720963
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1016972-5	**Lab File ID**	: V11170625A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 06/25/17 11:00

Client Sample No.	Lab Sample ID	Analysis Date
WG1016972-3LCS	WG1016972-3	06/25/17 09:18
WG1016972-4LCSD	WG1016972-4	06/25/17 09:44
MARINE 9A	L1720963-01	06/25/17 11:26
MARINE 9B	L1720963-02	06/25/17 11:51
MARINE 9C	L1720963-03	06/25/17 12:17
MARINE 9D	L1720963-04	06/25/17 12:43
MARINE 9E	L1720963-05	06/25/17 13:09
MARINE 9F	L1720963-06	06/25/17 13:34

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1720963
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1016974-5	**Lab File ID**	: V11170625A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 06/25/17 11:00

Client Sample No.	Lab Sample ID	Analysis Date
WG1016974-3LCS	WG1016974-3	06/25/17 09:18
WG1016974-4LCSD	WG1016974-4	06/25/17 09:44
MARINE 9H	L1720963-08	06/25/17 19:07

Method Blank Summary
Form 4

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1720963
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1017372-5	**Lab File ID**	: V11170626A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 06/26/17 09:05

Client Sample No.	Lab Sample ID	Analysis Date
WG1017372-3LCS	WG1017372-3	06/26/17 07:23
WG1017372-4LCSD	WG1017372-4	06/26/17 07:49
MARINE 9G	L1720963-07	06/26/17 09:56

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1720963	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/25/17 09:18	
Lab File ID	: V11170625A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1016972-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	92	-.01
Dichlorodifluoromethane	0.322	0.319	-	0.9	20	90	0
Chloromethane	0.417	0.443	-	-6.2	20	100	0
Vinyl chloride	0.349	0.351	-	-0.6	20	93	0
Bromomethane	20	24.558	-	-22.8*	20	103	0
Chloroethane	0.2	0.213	-	-6.5	20	93	0
Trichlorofluoromethane	0.406	0.506	-	-24.6*	20	113	0
Ethyl ether	0.164	0.167	-	-1.8	20	96	0
1,1-Dichloroethene	0.232	0.254	-	-9.5	20	102	0
Carbon disulfide	20	17.209	-	14	20	79	0
Freon-113	0.209	0.245	-	-17.2	20	107	0
Acrolein	20	19.598	-	2	20	97	0
Methylene chloride	0.307	0.31	-	-1	20	97	0
Acetone	20	19.604	-	2	20	87	-.01
trans-1,2-Dichloroethene	0.272	0.291	-	-7	20	101	-.01
Methyl acetate	0.193	0.202	-	-4.7	20	99	0
Methyl tert-butyl ether	0.851	0.883	-	-3.8	20	99	-.01
tert-Butyl alcohol	0.031	0.03	-	3.2	20	86	-.01
Diisopropyl ether	1.164	1.297	-	-11.4	20	105	-.01
1,1-Dichloroethane	0.588	0.651	-	-10.7	20	104	-.01
Halothane	0.184	0.212	-	-15.2	20	106	-.01
Acrylonitrile	0.098	0.106	-	-8.2	20	99	-.01
Ethyl tert-butyl ether	1.064	1.158	-	-8.8	20	103	-.01
Vinyl acetate	0.773	0.804	-	-4	20	97	-.01
cis-1,2-Dichloroethene	0.308	0.323	-	-4.9	20	99	-.01
2,2-Dichloropropane	0.454	0.544	-	-19.8	20	112	-.01
Bromochloromethane	0.131	0.139	-	-6.1	20	96	-.01
Cyclohexane	0.532	0.616	-	-15.8	20	107	-.01
Chloroform	0.529	0.593	-	-12.1	20	105	-.01
Ethyl acetate	0.303	0.296	-	2.3	20	92	-.01
Carbon tetrachloride	0.369	0.453	-	-22.8*	20	114	-.01
Tetrahydrofuran	0.105	0.107	-	-1.9	20	91	-.01
Dibromofluoromethane	0.243	0.256	-	-5.3	20	97	-.01
1,1,1-Trichloroethane	0.449	0.54	-	-20.3*	20	112	-.01
2-Butanone	0.121	0.124	-	-2.5	20	90	-.01
1,1-Dichloropropene	0.386	0.43	-	-11.4	20	102	-.01
Benzene	1.185	1.262	-	-6.5	20	100	-.01
tert-Amyl methyl ether	0.823	0.86	-	-4.5	20	98	-.01
1,2-Dichloroethane-d4	0.291	0.31	-	-6.5	20	99	-.01
1,2-Dichloroethane	0.445	0.481	-	-8.1	20	101	-.01
Methyl cyclohexane	0.426	0.468	-	-9.9	20	101	-.01
Trichloroethene	0.294	0.329	-	-11.9	20	106	-.01
Dibromomethane	0.17	0.174	-	-2.4	20	96	0
1,2-Dichloropropane	0.338	0.352	-	-4.1	20	99	-.01
2-Chloroethyl vinyl ether	0.156	0.159	-	-1.9	20	93	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1720963	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/25/17 09:18	
Lab File ID	: V11170625A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1016972-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.442	-	-5.5	20	100	-.01
1,4-Dioxane	0.0025	0.00231	-	7.6	20	87	-.01
cis-1,3-Dichloropropene	0.504	0.521	-	-3.4	20	97	-.01
Chlorobenzene-d5	1	1	-	0	20	100	-.01
Toluene-d8	1.317	1.264	-	4	20	95	-.01
Toluene	0.945	0.945	-	0	20	102	-.01
4-Methyl-2-pentanone	0.134	0.115	-	14.2	20	84	0
Tetrachloroethene	0.369	0.387	-	-4.9	20	104	-.01
trans-1,3-Dichloropropene	0.573	0.562	-	1.9	20	101	-.01
Ethyl methacrylate	0.46	0.399	-	13.3	20	89	-.01
1,1,2-Trichloroethane	0.272	0.255	-	6.3	20	95	0
Chlorodibromomethane	0.368	0.355	-	3.5	20	99	-.01
1,3-Dichloropropane	0.572	0.526	-	8	20	93	-.01
1,2-Dibromoethane	0.299	0.278	-	7	20	94	-.02
2-Hexanone	0.251	0.199	-	20.7*	20	81	-.01
Chlorobenzene	1.019	0.989	-	2.9	20	98	0
Ethylbenzene	1.803	1.794	-	0.5	20	101	-.01
1,1,1,2-Tetrachloroethane	0.36	0.37	-	-2.8	20	105	0
p/m Xylene	0.665	0.676	-	-1.7	20	102	0
o Xylene	0.64	0.625	-	2.3	20	99	-.01
Styrene	1.085	1.07	-	1.4	20	100	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	107	-.01
Bromoform	0.436	0.4	-	8.3	20	103	-.01
Isopropylbenzene	3.219	3.027	-	6	20	103	-.01
4-Bromofluorobenzene	0.989	0.939	-	5.1	20	103	-.01
Bromobenzene	0.796	0.712	-	10.6	20	99	-.01
n-Propylbenzene	4.022	3.774	-	6.2	20	103	0
1,4-Dichlorobutane	1.308	1.203	-	8	20	102	-.01
1,1,2,2-Tetrachloroethane	0.783	0.629	-	19.7	20	88	0
4-Ethyltoluene	3.218	3.138	-	2.5	20	106	0
2-Chlorotoluene	2.804	2.696	-	3.9	20	106	0
1,3,5-Trimethylbenzene	2.77	2.673	-	3.5	20	106	0
1,2,3-Trichloropropane	0.639	0.537	-	16	20	92	-.01
trans-1,4-Dichloro-2-buten	0.258	0.237	-	8.1	20	99	-.01
4-Chlorotoluene	2.539	2.361	-	7	20	103	0
tert-Butylbenzene	2.25	2.166	-	3.7	20	105	0
1,2,4-Trimethylbenzene	2.819	2.69	-	4.6	20	105	0
sec-Butylbenzene	3.481	3.355	-	3.6	20	104	0
p-Isopropyltoluene	2.911	2.811	-	3.4	20	105	0
1,3-Dichlorobenzene	1.577	1.47	-	6.8	20	104	0
1,4-Dichlorobenzene	1.611	1.452	-	9.9	20	102	0
p-Diethylbenzene	1.735	1.667	-	3.9	20	105	0
n-Butylbenzene	2.967	2.869	-	3.3	20	105	0
1,2-Dichlorobenzene	1.481	1.322	-	10.7	20	100	0
1,2,4,5-Tetramethylbenzene	2.795	2.638	-	5.6	20	106	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1720963	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 06/25/17 09:18	
Lab File ID	: V11170625A01	**Init. Calib. Date(s)**	: 05/01/17	05/01/17
Sample No	: WG1016972-2	**Init. Calib. Times**	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.113	0.092	-	18.6	20	93	0
1,3,5-Trichlorobenzene	1.183	1.166	-	1.4	20	111	0
Hexachlorobutadiene	0.57	0.6	-	-5.3	20	116	0
1,2,4-Trichlorobenzene	1.086	0.973	-	10.4	20	101	0
Naphthalene	2.33	1.815	-	22.1*	20	87	0
1,2,3-Trichlorobenzene	0.992	0.87	-	12.3	20	99	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1720963	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/25/17 09:18	
Lab File ID	: V11170625A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1016974-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	92	-.01
Dichlorodifluoromethane	0.322	0.319	-	0.9	20	90	0
Chloromethane	0.417	0.443	-	-6.2	20	100	0
Vinyl chloride	0.349	0.351	-	-0.6	20	93	0
Bromomethane	20	24.558	-	-22.8*	20	103	0
Chloroethane	0.2	0.213	-	-6.5	20	93	0
Trichlorofluoromethane	0.406	0.506	-	-24.6*	20	113	0
Ethyl ether	0.164	0.167	-	-1.8	20	96	0
1,1-Dichloroethene	0.232	0.254	-	-9.5	20	102	0
Carbon disulfide	20	17.209	-	14	20	79	0
Freon-113	0.209	0.245	-	-17.2	20	107	0
Acrolein	20	19.598	-	2	20	97	0
Methylene chloride	0.307	0.31	-	-1	20	97	0
Acetone	20	19.604	-	2	20	87	-.01
trans-1,2-Dichloroethene	0.272	0.291	-	-7	20	101	-.01
Methyl acetate	0.193	0.202	-	-4.7	20	99	0
Methyl tert-butyl ether	0.851	0.883	-	-3.8	20	99	-.01
tert-Butyl alcohol	0.031	0.03	-	3.2	20	86	-.01
Diisopropyl ether	1.164	1.297	-	-11.4	20	105	-.01
1,1-Dichloroethane	0.588	0.651	-	-10.7	20	104	-.01
Halothane	0.184	0.212	-	-15.2	20	106	-.01
Acrylonitrile	0.098	0.106	-	-8.2	20	99	-.01
Ethyl tert-butyl ether	1.064	1.158	-	-8.8	20	103	-.01
Vinyl acetate	0.773	0.804	-	-4	20	97	-.01
cis-1,2-Dichloroethene	0.308	0.323	-	-4.9	20	99	-.01
2,2-Dichloropropane	0.454	0.544	-	-19.8	20	112	-.01
Bromochloromethane	0.131	0.139	-	-6.1	20	96	-.01
Cyclohexane	0.532	0.616	-	-15.8	20	107	-.01
Chloroform	0.529	0.593	-	-12.1	20	105	-.01
Ethyl acetate	0.303	0.296	-	2.3	20	92	-.01
Carbon tetrachloride	0.369	0.453	-	-22.8*	20	114	-.01
Tetrahydrofuran	0.105	0.107	-	-1.9	20	91	-.01
Dibromofluoromethane	0.243	0.256	-	-5.3	20	97	-.01
1,1,1-Trichloroethane	0.449	0.54	-	-20.3*	20	112	-.01
2-Butanone	0.121	0.124	-	-2.5	20	90	-.01
1,1-Dichloropropene	0.386	0.43	-	-11.4	20	102	-.01
Benzene	1.185	1.262	-	-6.5	20	100	-.01
tert-Amyl methyl ether	0.823	0.86	-	-4.5	20	98	-.01
1,2-Dichloroethane-d4	0.291	0.31	-	-6.5	20	99	-.01
1,2-Dichloroethane	0.445	0.481	-	-8.1	20	101	-.01
Methyl cyclohexane	0.426	0.468	-	-9.9	20	101	-.01
Trichloroethene	0.294	0.329	-	-11.9	20	106	-.01
Dibromomethane	0.17	0.174	-	-2.4	20	96	0
1,2-Dichloropropane	0.338	0.352	-	-4.1	20	99	-.01
2-Chloroethyl vinyl ether	0.156	0.159	-	-1.9	20	93	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1720963	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/25/17 09:18	
Lab File ID	: V11170625A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1016974-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.442	-	-5.5	20	100	-.01
1,4-Dioxane	0.0025	0.00231	-	7.6	20	87	-.01
cis-1,3-Dichloropropene	0.504	0.521	-	-3.4	20	97	-.01
Chlorobenzene-d5	1	1	-	0	20	100	-.01
Toluene-d8	1.317	1.264	-	4	20	95	-.01
Toluene	0.945	0.945	-	0	20	102	-.01
4-Methyl-2-pentanone	0.134	0.115	-	14.2	20	84	0
Tetrachloroethene	0.369	0.387	-	-4.9	20	104	-.01
trans-1,3-Dichloropropene	0.573	0.562	-	1.9	20	101	-.01
Ethyl methacrylate	0.46	0.399	-	13.3	20	89	-.01
1,1,2-Trichloroethane	0.272	0.255	-	6.3	20	95	0
Chlorodibromomethane	0.368	0.355	-	3.5	20	99	-.01
1,3-Dichloropropane	0.572	0.526	-	8	20	93	-.01
1,2-Dibromoethane	0.299	0.278	-	7	20	94	-.02
2-Hexanone	0.251	0.199	-	20.7*	20	81	-.01
Chlorobenzene	1.019	0.989	-	2.9	20	98	0
Ethylbenzene	1.803	1.794	-	0.5	20	101	-.01
1,1,1,2-Tetrachloroethane	0.36	0.37	-	-2.8	20	105	0
p/m Xylene	0.665	0.676	-	-1.7	20	102	0
o Xylene	0.64	0.625	-	2.3	20	99	-.01
Styrene	1.085	1.07	-	1.4	20	100	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	107	-.01
Bromoform	0.436	0.4	-	8.3	20	103	-.01
Isopropylbenzene	3.219	3.027	-	6	20	103	-.01
4-Bromofluorobenzene	0.989	0.939	-	5.1	20	103	-.01
Bromobenzene	0.796	0.712	-	10.6	20	99	-.01
n-Propylbenzene	4.022	3.774	-	6.2	20	103	0
1,4-Dichlorobutane	1.308	1.203	-	8	20	102	-.01
1,1,2,2-Tetrachloroethane	0.783	0.629	-	19.7	20	88	0
4-Ethyltoluene	3.218	3.138	-	2.5	20	106	0
2-Chlorotoluene	2.804	2.696	-	3.9	20	106	0
1,3,5-Trimethylbenzene	2.77	2.673	-	3.5	20	106	0
1,2,3-Trichloropropane	0.639	0.537	-	16	20	92	-.01
trans-1,4-Dichloro-2-buten	0.258	0.237	-	8.1	20	99	-.01
4-Chlorotoluene	2.539	2.361	-	7	20	103	0
tert-Butylbenzene	2.25	2.166	-	3.7	20	105	0
1,2,4-Trimethylbenzene	2.819	2.69	-	4.6	20	105	0
sec-Butylbenzene	3.481	3.355	-	3.6	20	104	0
p-Isopropyltoluene	2.911	2.811	-	3.4	20	105	0
1,3-Dichlorobenzene	1.577	1.47	-	6.8	20	104	0
1,4-Dichlorobenzene	1.611	1.452	-	9.9	20	102	0
p-Diethylbenzene	1.735	1.667	-	3.9	20	105	0
n-Butylbenzene	2.967	2.869	-	3.3	20	105	0
1,2-Dichlorobenzene	1.481	1.322	-	10.7	20	100	0
1,2,4,5-Tetramethylbenzene	2.795	2.638	-	5.6	20	106	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1720963	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 06/25/17 09:18	
Lab File ID	: V11170625A01	**Init. Calib. Date(s)**	: 05/01/17	05/01/17
Sample No	: WG1016974-2	**Init. Calib. Times**	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.113	0.092	-	18.6	20	93	0
1,3,5-Trichlorobenzene	1.183	1.166	-	1.4	20	111	0
Hexachlorobutadiene	0.57	0.6	-	-5.3	20	116	0
1,2,4-Trichlorobenzene	1.086	0.973	-	10.4	20	101	0
Naphthalene	2.33	1.815	-	22.1*	20	87	0
1,2,3-Trichlorobenzene	0.992	0.87	-	12.3	20	99	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1720963	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/26/17 07:23	
Lab File ID	: V11170626A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1017372-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	82	-.01
Dichlorodifluoromethane	0.322	0.339	-	-5.3	20	85	0
Chloromethane	0.417	0.471	-	-12.9	20	95	0
Vinyl chloride	0.349	0.358	-	-2.6	20	84	0
Bromomethane	20	24.618	-	-23.1*	20	92	0
Chloroethane	0.2	0.222	-	-11	20	87	0
Trichlorofluoromethane	0.406	0.538	-	-32.5*	20	107	0
Ethyl ether	0.164	0.179	-	-9.1	20	93	0
1,1-Dichloroethene	0.232	0.265	-	-14.2	20	95	0
Carbon disulfide	20	17.91	-	10.4	20	73	0
Freon-113	0.209	0.257	-	-23*	20	100	0
Acrolein	20	22.477	-	-12.4	20	98	0
Methylene chloride	0.307	0.33	-	-7.5	20	92	0
Acetone	20	21.969	-	-9.8	20	87	-.01
trans-1,2-Dichloroethene	0.272	0.302	-	-11	20	93	-.01
Methyl acetate	0.193	0.231	-	-19.7	20	101	0
Methyl tert-butyl ether	0.851	0.916	-	-7.6	20	91	0
tert-Butyl alcohol	0.031	0.033	-	-6.5	20	84	-.01
Diisopropyl ether	1.164	1.391	-	-19.5	20	100	-.01
1,1-Dichloroethane	0.588	0.686	-	-16.7	20	98	0
Halothane	0.184	0.214	-	-16.3	20	96	-.01
Acrylonitrile	0.098	0.118	-	-20.4*	20	98	-.01
Ethyl tert-butyl ether	1.064	1.209	-	-13.6	20	96	-.01
Vinyl acetate	0.773	0.893	-	-15.5	20	96	-.01
cis-1,2-Dichloroethene	0.308	0.326	-	-5.8	20	89	0
2,2-Dichloropropane	0.454	0.557	-	-22.7*	20	102	-.01
Bromochloromethane	0.131	0.143	-	-9.2	20	89	0
Cyclohexane	0.532	0.654	-	-22.9*	20	101	-.01
Chloroform	0.529	0.617	-	-16.6	20	97	-.01
Ethyl acetate	0.303	0.343	-	-13.2	20	96	-.01
Carbon tetrachloride	0.369	0.475	-	-28.7*	20	107	-.01
Tetrahydrofuran	0.105	0.122	-	-16.2	20	93	-.01
Dibromofluoromethane	0.243	0.269	-	-10.7	20	91	-.01
1,1,1-Trichloroethane	0.449	0.566	-	-26.1*	20	105	-.01
2-Butanone	0.121	0.14	-	-15.7	20	91	-.01
1,1-Dichloropropene	0.386	0.434	-	-12.4	20	92	-.01
Benzene	1.185	1.291	-	-8.9	20	91	-.01
tert-Amyl methyl ether	0.823	0.882	-	-7.2	20	90	-.01
1,2-Dichloroethane-d4	0.291	0.333	-	-14.4	20	95	-.01
1,2-Dichloroethane	0.445	0.519	-	-16.6	20	98	-.01
Methyl cyclohexane	0.426	0.485	-	-13.8	20	93	-.01
Trichloroethene	0.294	0.335	-	-13.9	20	96	-.01
Dibromomethane	0.17	0.184	-	-8.2	20	91	0
1,2-Dichloropropane	0.338	0.368	-	-8.9	20	92	-.01
2-Chloroethyl vinyl ether	0.156	0.165	-	-5.8	20	87	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1720963	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 06/26/17 07:23	
Lab File ID	: V11170626A01	Init. Calib. Date(s)	: 05/01/17	05/01/17
Sample No	: WG1017372-2	Init. Calib. Times	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.419	0.469	-	-11.9	20	94	0
1,4-Dioxane	0.0025	0.00245	-	2	20	83	-.01
cis-1,3-Dichloropropene	0.504	0.548	-	-8.7	20	91	-.01
Chlorobenzene-d5	1	1	-	0	20	93	-.01
Toluene-d8	1.317	1.241	-	5.8	20	87	-.01
Toluene	0.945	0.908	-	3.9	20	91	-.01
4-Methyl-2-pentanone	0.134	0.117	-	12.7	20	79	0
Tetrachloroethene	0.369	0.377	-	-2.2	20	94	-.01
trans-1,3-Dichloropropene	0.573	0.563	-	1.7	20	94	-.01
Ethyl methacrylate	0.46	0.402	-	12.6	20	83	0
1,1,2-Trichloroethane	0.272	0.255	-	6.3	20	88	-.01
Chlorodibromomethane	0.368	0.36	-	2.2	20	94	-.01
1,3-Dichloropropane	0.572	0.535	-	6.5	20	88	0
1,2-Dibromoethane	0.299	0.278	-	7	20	87	-.01
2-Hexanone	0.251	0.213	-	15.1	20	80	-.01
Chlorobenzene	1.019	0.961	-	5.7	20	89	0
Ethylbenzene	1.803	1.732	-	3.9	20	91	-.01
1,1,1,2-Tetrachloroethane	0.36	0.362	-	-0.6	20	95	-.01
p/m Xylene	0.665	0.659	-	0.9	20	92	0
o Xylene	0.64	0.602	-	5.9	20	89	-.01
Styrene	1.085	1.046	-	3.6	20	91	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
Bromoform	0.436	0.421	-	3.4	20	96	0
Isopropylbenzene	3.219	2.994	-	7	20	91	0
4-Bromofluorobenzene	0.989	0.948	-	4.1	20	93	-.01
Bromobenzene	0.796	0.701	-	11.9	20	87	-.01
n-Propylbenzene	4.022	3.764	-	6.4	20	92	0
1,4-Dichlorobutane	1.308	1.32	-	-0.9	20	100	-.01
1,1,2,2-Tetrachloroethane	0.783	0.686	-	12.4	20	86	0
4-Ethyltoluene	3.218	3.126	-	2.9	20	94	0
2-Chlorotoluene	2.804	2.73	-	2.6	20	96	0
1,3,5-Trimethylbenzene	2.77	2.689	-	2.9	20	95	0
1,2,3-Trichloropropane	0.639	0.576	-	9.9	20	88	-.01
trans-1,4-Dichloro-2-buten	0.258	0.26	-	-0.8	20	96	-.01
4-Chlorotoluene	2.539	2.372	-	6.6	20	92	-.01
tert-Butylbenzene	2.25	2.128	-	5.4	20	92	0
1,2,4-Trimethylbenzene	2.819	2.691	-	4.5	20	93	0
sec-Butylbenzene	3.481	3.363	-	3.4	20	93	0
p-Isopropyltoluene	2.911	2.789	-	4.2	20	92	0
1,3-Dichlorobenzene	1.577	1.477	-	6.3	20	93	0
1,4-Dichlorobenzene	1.611	1.464	-	9.1	20	91	0
p-Diethylbenzene	1.735	1.665	-	4	20	94	0
n-Butylbenzene	2.967	2.902	-	2.2	20	94	-.01
1,2-Dichlorobenzene	1.481	1.346	-	9.1	20	91	0
1,2,4,5-Tetramethylbenzene	2.795	2.522	-	9.8	20	90	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1720963	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 06/26/17 07:23	
Lab File ID	: V11170626A01	**Init. Calib. Date(s)**	: 05/01/17	05/01/17
Sample No	: WG1017372-2	**Init. Calib. Times**	: 13:38	16:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.113	0.099	-	12.4	20	89	0
1,3,5-Trichlorobenzene	1.183	1.133	-	4.2	20	96	-.01
Hexachlorobutadiene	0.57	0.593	-	-4	20	102	0
1,2,4-Trichlorobenzene	1.086	0.951	-	12.4	20	88	0
Naphthalene	2.33	1.848	-	20.7*	20	79	0
1,2,3-Trichlorobenzene	0.992	0.867	-	12.6	20	87	0

* Value outside of QC limits.

I:\Pest11\170624c\11170624c-01.d

Data File Name	**11170624c-01.d**
Data File Path	**I:\Pest11\170624c**
Operator	**PEST11:dm**
Date Acquired	**6/24/2017 23:23**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170624c01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	5.00	783611261.8	% Breakdown
4,4'-DDE	4.35	8726156.71	
4,4'-DDD	4.80	25445601.37	4.18%
Endrin	4.74	552948002.8	% Breakdown
Endrin Aldehyde	5.21	4759068.093	
Endrin Ketone	5.69	16006967	3.62%
4,4'-DDT #2	5.61	1428707723.54	% Breakdown
4,4'-DDE #2	4.97	11691834.31	
4,4'-DDD #2	5.39	47458072.5	3.98%
Endrin #2	5.33	999866439.7	
Endrin Aldehyde #2	5.71	6565041.796	
Endrin Ketone #2	6.27	25659991.25	3.12%

######### Data File Path **I:\Pest17\150918**

wg1016030-1,2,3,4,5

I:\Pest11\170627a\11170627a-01.d

Data File Name	**11170627a-01.d**
Data File Path	**I:\Pest11\170627a**
Operator	**PEST11:keg**
Date Acquired	**6/27/2017 9:31**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170627a01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.99	760835458.7	% Breakdown
4,4'-DDE	4.34	5852040.95	
4,4'-DDD	4.79	17195856.5	2.94%
Endrin	4.74	520820104.2	% Breakdown
Endrin Aldehyde	5.20	3450075.113	
Endrin Ketone	5.69	14274819.61	3.29%
4,4'-DDT #2	5.60	1158930571.00	% Breakdown
4,4'-DDE #2	4.96	6669277.82	
4,4'-DDD #2	5.38	20861438.23	2.32%
Endrin #2	5.32	786171085.2	
Endrin Aldehyde #2	5.70	4074707.266	
Endrin Ketone #2	6.26	18642448	2.81%

######### Data File Path **I:\Pest17\150918**

L1720963-01d,02,03,04d,05,06,06d,07,08

ANALYTICAL REPORT

Lab Number:	L1721744
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:	06/29/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1721744
Report Date: 06/29/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1721744-01	MARINE 9A	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:00	06/21/17
L1721744-02	MARINE 9C	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:20	06/21/17
L1721744-03	MARINE 9D	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:30	06/21/17
L1721744-04	MARINE 9E	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:40	06/21/17
L1721744-05	MARINE 9F	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:50	06/21/17
L1721744-06	MARINE 9G	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 12:00	06/21/17
L1721744-07	MARINE 9H	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 12:10	06/21/17
L1721744-08	MARINE 9B	SOIL	1 HORIZON WAY, EVERETT, MA	06/21/17 11:10	06/21/17

Project Name:	WYNN EVERETT	**Lab Number:**	L1721744
Project Number:	171521.52	**Report Date:**	06/29/17

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?	YES
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: L1721744
Report Date: 06/29/17

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:**	L1721744
Project Number:	171521.52	**Report Date:**	06/29/17

Case Narrative (continued)

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

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: 06/29/17

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1721744
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721744-01
Client ID: MARINE 9A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:00
Date Received: 06/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 22:35

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	0.968		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 11:59	EPA 3015	1,6010C	PS
Mercury, TCLP	0.1295		mg/l	0.0050	--	5	06/29/17 08:00	06/29/17 13:09	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 11:59	EPA 3015	1,6010C	PS

Project Name:	WYNN EVERETT	**Lab Number:**	L1721744
Project Number:	171521.52	**Report Date:**	06/29/17

SAMPLE RESULTS

Lab ID:	L1721744-02	Date Collected:	06/21/17 11:20
Client ID:	MARINE 9C	Date Received:	06/21/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	06/27/17 22:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/29/17 09:50	06/29/17 12:17	EPA 3015	1,6010C	PS
Lead, TCLP	6.09		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:17	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1721744
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721744-03
Client ID: MARINE 9D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 11:30
Date Received: 06/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 22:35

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	0.504		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:22	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1721744
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721744-04
Client ID: MARINE 9E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 11:40
Date Received: 06/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 22:35

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	1.29		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:26	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1721744
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721744-05
Client ID: MARINE 9F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:50
Date Received: 06/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 22:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/29/17 09:50	06/29/17 12:44	EPA 3015	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:44	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Lab Number: L1721744
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721744-06
Client ID: MARINE 9G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/21/17 12:00
Date Received: 06/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 22:35

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	1.24		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:49	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1721744
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721744-07
Client ID: MARINE 9H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 12:10
Date Received: 06/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 22:35

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	6.07		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:53	EPA 3015	1,6010C	PS
Mercury, TCLP	ND		mg/l	0.0010	--	1	06/29/17 08:00	06/29/17 12:09	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:53	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1721744
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721744-08
Client ID: MARINE 9B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/21/17 11:10
Date Received: 06/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 22:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/29/17 09:50	06/29/17 12:58	EPA 3015	1,6010C	PS
Lead, TCLP	5.01		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 12:58	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1721744
Report Date: 06/29/17

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): 01,07 Batch: WG1018212-1										
Mercury, TCLP	ND		mg/l	0.0010	--	1	06/29/17 08:00	06/29/17 11:56	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 06/27/17 22:35

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): 01-08 Batch: WG1018274-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	06/29/17 09:50	06/29/17 11:50	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 11:50	1,6010C	PS
Selenium, TCLP	ND		mg/l	0.500	--	1	06/29/17 09:50	06/29/17 11:50	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/27/17 22:35

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1721744

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,07 Batch: WG1018212-2								
Mercury, TCLP	94		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-08 Batch: WG1018274-2								
Arsenic, TCLP	112		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20
Selenium, TCLP	112		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1721744
Report Date: 06/29/17

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): 01,07 QC Batch ID: WG1018212-3 QC Sample: L1721744-01 Client ID: MARINE 9A												
Mercury, TCLP	0.1295	0.025	0.1525	92		-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1018274-3 QC Sample: L1721744-01 Client ID: MARINE 9A												
Arsenic, TCLP	ND	1.2	1.37	114		-	-		75-125	-		20
Lead, TCLP	0.968	5.1	6.05	100		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.40	117		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1721744
Report Date: 06/29/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,07 QC Batch ID: WG1018212-4 QC Sample: L1721744-01 Client ID: MARINE 9A						
Mercury, TCLP	0.1295	0.1282	mg/l	1		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1018274-4 QC Sample: L1721744-01 Client ID: MARINE 9A						
Lead, TCLP	0.968	0.972	mg/l	0		20
Selenium, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1721744
Report Date: 06/29/17

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(*)
L1721744-01A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		HG-C(28),PB-CI(180),SE-CI(180)
L1721744-01X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1721744-02A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		AS-CI(180),PB-CI(180)
L1721744-02X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1721744-03A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		PB-CI(180)
L1721744-03X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1721744-04A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		PB-CI(180)
L1721744-04X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1721744-05A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		AS-CI(180),PB-CI(180)
L1721744-05X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1721744-06A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		PB-CI(180)
L1721744-06X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1721744-07A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-07X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		HG-C(28),PB-CI(180),SE-CI(180)
L1721744-07X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1721744-08A	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1721744-08X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		AS-CI(180),PB-CI(180)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1721744
Report Date: 06/29/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1721744-08X9	Tumble Vessel	A	NA		2.8	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1721744
Project Number:	171521.52	**Report Date:**	06/29/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1721744
Project Number:	171521.52	**Report Date:**	06/29/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1721744
Project Number:	171521.52	**Report Date:**	06/29/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 6/23/17

L1721744 6/27/17 WM

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: 6/21/17

ALPHA Job #: L1720963

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~~ WYNN EVERETT
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 meatals 1)TCLP HG 4) TCLP AS
2) TCLP PB
3) TCLP SE

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 (LIGHT)	Herbicides, Pesticides w/ Texiphene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)	1	2	3	4	Sample Specific Comments	TOTAL # BOTTLES
~~20963-01~~	Marine 9A	6/21/17	1100	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	X	X	☐	☐	
21744-08 ~~02~~	Marine 9B	6/21/17	1110	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	X	☐	X	☐	
02 ~~03~~	Marine 9C	6/21/17	1120	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	X	☐	X	☐	
03 ~~04~~	Marine 9D	6/21/17	1130	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	X	☐	☐	☐	
04 ~~05~~	Marine 9E	6/21/17	1140	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	X	☐	☐	☐	
05 ~~06~~	Marine 9F	6/21/17	1150	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	X	☐	X	☐	
06 ~~07~~	Marine 9G	6/21/17	1200	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☐	X	☐	☐	☐	
07 ~~08~~	Marine 9H	6/21/17	1210	soil	DRS	☒	☒	☒	☒	☒	☒	☒	☒	X	X	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Container Type						G	-	-	-	-	-	-	-	-	-	-	-	
Preservative						-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
	6/21/17 12:30		6/21/17 12:30
AAL 6/21/17	18:05		6/21/17 18:05

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:	L1721771
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:	06/29/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1721771
Report Date: 06/29/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1721771-01	FUEL TANK SUPPLEMENTAL WEST	SOIL	1 HORIZON WAY, EVERETT, MA	06/27/17 08:30	06/27/17
L1721771-02	FUEL TANK SUPPLEMENTAL EAST	SOIL	1 HORIZON WAY, EVERETT, MA	06/27/17 08:35	06/27/17
L1721771-03	UTILITY STOCKPILE SUPPLEMENTAL WEST	SOIL	1 HORIZON WAY, EVERETT, MA	06/27/17 08:40	06/27/17
L1721771-04	UTILITY STOCKPILE SUPPLEMENTAL EAST	SOIL	1 HORIZON WAY, EVERETT, MA	06/27/17 08:45	06/27/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1721771
Report Date: 06/29/17

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:  Kara Lindquist

Title: Technical Director/Representative Date: 06/29/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1721771
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721771-01
Client ID: FUEL TANK SUPPLEMENTAL WEST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/27/17 08:30
Date Received: 06/27/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 16:44

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	1.62		mg/l	0.500	--	1	06/28/17 14:40	06/28/17 18:46	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Lab Number: L1721771
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721771-02
Client ID: FUEL TANK SUPPLEMENTAL EAST
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/27/17 08:35
Date Received: 06/27/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 16:44

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	0.830		mg/l	0.500	--	1	06/28/17 14:40	06/28/17 19:24	EPA 3015	1,6010C	AM

Project Name:	WYNN EVERETT	**Lab Number:**	L1721771
Project Number:	171521.52	**Report Date:**	06/29/17

SAMPLE RESULTS

Lab ID:	L1721771-03	Date Collected:	06/27/17 08:40
Client ID:	UTILITY STOCKPILE SUPPLEMENTAL	Date Received:	06/27/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	06/27/17 16:44

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	06/28/17 14:40	06/28/17 19:28	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Lab Number: L1721771
Project Number: 171521.52
Report Date: 06/29/17

SAMPLE RESULTS

Lab ID: L1721771-04
Client ID: UTILITY STOCKPILE SUPPLEMENTAL
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/27/17 08:45
Date Received: 06/27/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/27/17 16:44

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	1.79		mg/l	0.500	--	1	06/28/17 14:40	06/28/17 19:33	EPA 3015	1,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1721771
Report Date: 06/29/17

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): 01-04 Batch: WG1017950-1										
Lead, TCLP	ND		mg/l	0.500	--	1	06/28/17 14:40	06/28/17 17:19	1,6010C	AM

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/27/17 16:44

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1721771

Report Date: 06/29/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1017950-2								
Lead, TCLP	99		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1721771
Report Date: 06/29/17

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): 01-04 QC Batch ID: WG1017950-3 QC Sample: L1719926-04 Client ID: MS Sample												
Lead, TCLP	26.2	5.1	31.8	110		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1721771
Report Date: 06/29/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1017950-4 QC Sample: L1719926-04 Client ID: DUP Sample						
Lead, TCLP	26.2	26.4	mg/l	1		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1721771
Report Date: 06/29/17

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(*)
L1721771-01A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1721771-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180)
L1721771-01X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1721771-02A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1721771-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180)
L1721771-02X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1721771-03A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1721771-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180)
L1721771-03X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1721771-04A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1721771-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180)
L1721771-04X9	Tumble Vessel	A	NA		2.1	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1721771
Project Number:	171521.52	**Report Date:**	06/29/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1721771
Project Number:	171521.52	**Report Date:**	06/29/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1721771
Project Number:	171521.52	**Report Date:**	06/29/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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: 6/27/17

ALPHA Job #: L1721771

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: ASAP Time:

Other Project Specific Requirements/Comments/Detection Limits:
Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com

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

TCLP - Lead

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

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP - Lead	TOTAL # BOTTLES	Sample Specific Comments
21771-01	Fuel Tank Supplemental West	6/27/17	0830	S	MDD	☒		
02	Fuel Tank Supplemental East	6/27/17	0835	S	MDD	☒		
03	Utility Stockpile Supplemental West	6/27/17	0840	S	MDD	☒		
04	Utility Stockpile Supplemental East	6/27/17	0845	S	MDD	☒		

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Riordan	6-27-17@1140	[illegible] AAL	6/27/17 1140
[illegible]	6/27/17 1320	[illegible] AAL	6/27/17 1320

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:	L1722002
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:	07/05/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1722002
Report Date: 07/05/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1722002-01	IRON SLUDGE LAGOON-1	SLUDGE	1 HORIZON WAY, EVERETT, MA	06/28/17 09:00	06/28/17
L1722002-02	IRON SLUDGE LAGOON-2	SLUDGE	1 HORIZON WAY, EVERETT, MA	06/28/17 09:15	06/28/17
L1722002-03	IRON SLUDGE LAGOON-3	SLUDGE	1 HORIZON WAY, EVERETT, MA	06/28/17 09:30	06/28/17

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

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: L1722002
Report Date: 07/05/17

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:** L1722002
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Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1722002-01, -02 and -03, did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0919) and 1,4-dioxane (0.0024), as well as the average response factor for acetone and 1,4-dioxane. The initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (139%), but within overall method criteria.

The continuing calibration standard, associated with L1722002-01, -02 and -03,, 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

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1722002-01, -02 and -03: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG1018521-2/-3 LCS/LCSD recoveries, associated with L1722002-01, -02 and -03, are below the acceptance criteria for dinoseb (4%/3%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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Case Narrative (continued)

Non-MCP Related Narratives

Petroleum Hydrocarbon Quantitation

The WG1018177-3 Laboratory Duplicate RPD, performed on L1722002-01, is outside the acceptance criteria for TPH (61%). The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Specific Conductance @ 25 C

The WG1018267-2 Laboratory Duplicate RPD (37%), performed on L1722002-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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: 07/05/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified

Matrix: Sludge
Analytical Method: 97,8260C
Analytical Date: 06/30/17 14:37
Analyst: JC
Percent Solids: 34%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	17	--	1
1,1-Dichloroethane	ND		ug/kg	2.5	--	1
Chloroform	ND		ug/kg	2.5	--	1
Carbon tetrachloride	ND		ug/kg	1.7	--	1
1,2-Dichloropropane	ND		ug/kg	5.8	--	1
Dibromochloromethane	ND		ug/kg	1.7	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.5	--	1
Tetrachloroethene	ND		ug/kg	1.7	--	1
Chlorobenzene	ND		ug/kg	1.7	--	1
Trichlorofluoromethane	ND		ug/kg	6.7	--	1
1,2-Dichloroethane	ND		ug/kg	1.7	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	--	1
Bromodichloromethane	ND		ug/kg	1.7	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.7	--	1
1,1-Dichloropropene	ND		ug/kg	6.7	--	1
Bromoform	ND		ug/kg	6.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	--	1
Benzene	ND		ug/kg	1.7	--	1
Toluene	ND		ug/kg	2.5	--	1
Ethylbenzene	ND		ug/kg	1.7	--	1
Chloromethane	ND		ug/kg	6.7	--	1
Bromomethane	ND		ug/kg	3.3	--	1
Vinyl chloride	ND		ug/kg	3.3	--	1
Chloroethane	ND		ug/kg	3.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.7	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	--	1
Trichloroethene	ND		ug/kg	1.7	--	1
1,2-Dichlorobenzene	ND		ug/kg	6.7	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01 Date Collected: 06/28/17 09:00

Client ID: IRON SLUDGE LAGOON-1 Date Received: 06/28/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	6.7	--	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	3.3	--	1
Xylenes, Total	ND		ug/kg	3.3	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	--	1
Dibromomethane	ND		ug/kg	6.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	6.7	--	1
Styrene	ND		ug/kg	3.3	--	1
Dichlorodifluoromethane	ND		ug/kg	17	--	1
Acetone	ND		ug/kg	60	--	1
Carbon disulfide	ND		ug/kg	6.7	--	1
Methyl ethyl ketone	ND		ug/kg	17	--	1
Methyl isobutyl ketone	ND		ug/kg	17	--	1
2-Hexanone	ND		ug/kg	17	--	1
Bromochloromethane	ND		ug/kg	6.7	--	1
Tetrahydrofuran	ND		ug/kg	6.7	--	1
2,2-Dichloropropane	ND		ug/kg	8.4	--	1
1,2-Dibromoethane	ND		ug/kg	6.7	--	1
1,3-Dichloropropane	ND		ug/kg	6.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	--	1
Bromobenzene	ND		ug/kg	8.4	--	1
n-Butylbenzene	ND		ug/kg	1.7	--	1
sec-Butylbenzene	ND		ug/kg	1.7	--	1
tert-Butylbenzene	ND		ug/kg	6.7	--	1
o-Chlorotoluene	ND		ug/kg	6.7	--	1
p-Chlorotoluene	ND		ug/kg	6.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	--	1
Hexachlorobutadiene	ND		ug/kg	6.7	--	1
Isopropylbenzene	ND		ug/kg	1.7	--	1
p-Isopropyltoluene	ND		ug/kg	1.7	--	1
Naphthalene	ND		ug/kg	6.7	--	1
n-Propylbenzene	ND		ug/kg	1.7	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.7	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	8.4	--	1
Diisopropyl Ether	ND		ug/kg	6.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	6.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	6.7	--	1
1,4-Dioxane	ND		ug/kg	67	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified

Matrix: Sludge
Analytical Method: 97,8260C
Analytical Date: 06/30/17 15:03
Analyst: JC
Percent Solids: 39%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	--	1
1,1-Dichloroethane	ND		ug/kg	2.2	--	1
Chloroform	ND		ug/kg	2.2	--	1
Carbon tetrachloride	ND		ug/kg	1.5	--	1
1,2-Dichloropropane	ND		ug/kg	5.2	--	1
Dibromochloromethane	ND		ug/kg	1.5	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	--	1
Tetrachloroethene	ND		ug/kg	1.5	--	1
Chlorobenzene	ND		ug/kg	1.5	--	1
Trichlorofluoromethane	ND		ug/kg	6.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.5	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	--	1
Bromodichloromethane	ND		ug/kg	1.5	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	--	1
1,1-Dichloropropene	ND		ug/kg	6.0	--	1
Bromoform	ND		ug/kg	6.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	--	1
Benzene	ND		ug/kg	1.5	--	1
Toluene	ND		ug/kg	2.2	--	1
Ethylbenzene	ND		ug/kg	1.5	--	1
Chloromethane	ND		ug/kg	6.0	--	1
Bromomethane	ND		ug/kg	3.0	--	1
Vinyl chloride	ND		ug/kg	3.0	--	1
Chloroethane	ND		ug/kg	3.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.5	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	--	1
Trichloroethene	ND		ug/kg	1.5	--	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02 Date Collected: 06/28/17 09:15

Client ID: IRON SLUDGE LAGOON-2 Date Received: 06/28/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	--	1
Methyl tert butyl ether	ND		ug/kg	3.0	--	1
p/m-Xylene	ND		ug/kg	3.0	--	1
o-Xylene	ND		ug/kg	3.0	--	1
Xylenes, Total	ND		ug/kg	3.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	--	1
Dibromomethane	ND		ug/kg	6.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	6.0	--	1
Styrene	ND		ug/kg	3.0	--	1
Dichlorodifluoromethane	ND		ug/kg	15	--	1
Acetone	ND		ug/kg	54	--	1
Carbon disulfide	ND		ug/kg	6.0	--	1
Methyl ethyl ketone	ND		ug/kg	15	--	1
Methyl isobutyl ketone	ND		ug/kg	15	--	1
2-Hexanone	ND		ug/kg	15	--	1
Bromochloromethane	ND		ug/kg	6.0	--	1
Tetrahydrofuran	ND		ug/kg	6.0	--	1
2,2-Dichloropropane	ND		ug/kg	7.5	--	1
1,2-Dibromoethane	ND		ug/kg	6.0	--	1
1,3-Dichloropropane	ND		ug/kg	6.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	--	1
Bromobenzene	ND		ug/kg	7.5	--	1
n-Butylbenzene	ND		ug/kg	1.5	--	1
sec-Butylbenzene	ND		ug/kg	1.5	--	1
tert-Butylbenzene	ND		ug/kg	6.0	--	1
o-Chlorotoluene	ND		ug/kg	6.0	--	1
p-Chlorotoluene	ND		ug/kg	6.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	--	1
Hexachlorobutadiene	ND		ug/kg	6.0	--	1
Isopropylbenzene	ND		ug/kg	1.5	--	1
p-Isopropyltoluene	ND		ug/kg	1.5	--	1
Naphthalene	ND		ug/kg	6.0	--	1
n-Propylbenzene	ND		ug/kg	1.5	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02 Date Collected: 06/28/17 09:15

Client ID: IRON SLUDGE LAGOON-2 Date Received: 06/28/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	7.5	--	1
Diisopropyl Ether	ND		ug/kg	6.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	6.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	6.0	--	1
1,4-Dioxane	ND		ug/kg	60	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified

Matrix: Sludge
Analytical Method: 97,8260C
Analytical Date: 06/30/17 15:30
Analyst: PK
Percent Solids: 46%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	--	1
1,1-Dichloroethane	ND		ug/kg	2.0	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	4.6	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	--	1
Tetrachloroethene	ND		ug/kg	1.3	--	1
Chlorobenzene	1.8		ug/kg	1.3	--	1
Trichlorofluoromethane	ND		ug/kg	5.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	--	1
Bromodichloromethane	ND		ug/kg	1.3	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	--	1
1,1-Dichloropropene	ND		ug/kg	5.2	--	1
Bromoform	ND		ug/kg	5.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	--	1
Benzene	ND		ug/kg	1.3	--	1
Toluene	ND		ug/kg	2.0	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.2	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	2.6	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1
Trichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03 Date Collected: 06/28/17 09:30

Client ID: IRON SLUDGE LAGOON-3 Date Received: 06/28/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	2.6	--	1
Xylenes, Total	ND		ug/kg	2.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	5.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	5.2	--	1
Styrene	ND		ug/kg	2.6	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	56		ug/kg	47	--	1
Carbon disulfide	9.0		ug/kg	5.2	--	1
Methyl ethyl ketone	ND		ug/kg	13	--	1
Methyl isobutyl ketone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Bromochloromethane	ND		ug/kg	5.2	--	1
Tetrahydrofuran	ND		ug/kg	5.2	--	1
2,2-Dichloropropane	ND		ug/kg	6.5	--	1
1,2-Dibromoethane	ND		ug/kg	5.2	--	1
1,3-Dichloropropane	ND		ug/kg	5.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	--	1
Bromobenzene	ND		ug/kg	6.5	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	5.2	--	1
o-Chlorotoluene	ND		ug/kg	5.2	--	1
p-Chlorotoluene	ND		ug/kg	5.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	--	1
Hexachlorobutadiene	ND		ug/kg	5.2	--	1
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.2	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	6.5	--	1
Diisopropyl Ether	ND		ug/kg	5.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.2	--	1
1,4-Dioxane	ND		ug/kg	52	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/30/17 08:29
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1018777-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/30/17 08:29
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1018777-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 06/30/17 08:29
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1018777-5					
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1018777-3 WG1018777-4								
Methylene chloride	85		87		70-130	2		20
1,1-Dichloroethane	87		96		70-130	10		20
Chloroform	91		101		70-130	10		20
Carbon tetrachloride	102		109		70-130	7		20
1,2-Dichloropropane	96		101		70-130	5		20
Dibromochloromethane	100		103		70-130	3		20
1,1,2-Trichloroethane	97		98		70-130	1		20
Tetrachloroethene	92		95		70-130	3		20
Chlorobenzene	93		95		70-130	2		20
Trichlorofluoromethane	95		101		70-130	6		20
1,2-Dichloroethane	107		114		70-130	6		20
1,1,1-Trichloroethane	100		105		70-130	5		20
Bromodichloromethane	103		103		70-130	0		20
trans-1,3-Dichloropropene	103		103		70-130	0		20
cis-1,3-Dichloropropene	93		93		70-130	0		20
1,1-Dichloropropene	89		98		70-130	10		20
Bromoform	98		104		70-130	6		20
1,1,2,2-Tetrachloroethane	94		97		70-130	3		20
Benzene	90		91		70-130	1		20
Toluene	92		94		70-130	2		20
Ethylbenzene	92		96		70-130	4		20
Chloromethane	91		100		70-130	9		20
Bromomethane	90		95		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1018777-3 WG1018777-4								
Vinyl chloride	92		101		70-130	9		20
Chloroethane	80		85		70-130	6		20
1,1-Dichloroethene	72		77		70-130	7		20
trans-1,2-Dichloroethene	80		88		70-130	10		20
Trichloroethene	93		98		70-130	5		20
1,2-Dichlorobenzene	95		98		70-130	3		20
1,3-Dichlorobenzene	94		96		70-130	2		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	90		94		70-130	4		20
p/m-Xylene	92		95		70-130	3		20
o-Xylene	91		94		70-130	3		20
cis-1,2-Dichloroethene	80		92		70-130	14		20
Dibromomethane	97		102		70-130	5		20
1,2,3-Trichloropropane	96		99		70-130	3		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	97		108		70-130	11		20
Acetone	114		125		70-130	9		20
Carbon disulfide	**66**	Q	82		70-130	**22**	Q	20
Methyl ethyl ketone	100		110		70-130	10		20
Methyl isobutyl ketone	105		110		70-130	5		20
2-Hexanone	108		115		70-130	6		20
Bromochloromethane	88		98		70-130	11		20
Tetrahydrofuran	121		**131**	Q	70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1018777-3 WG1018777-4								
2,2-Dichloropropane	90		100		70-130	11		20
1,2-Dibromoethane	97		101		70-130	4		20
1,3-Dichloropropane	97		100		70-130	3		20
1,1,1,2-Tetrachloroethane	96		100		70-130	4		20
Bromobenzene	94		96		70-130	2		20
n-Butylbenzene	95		94		70-130	1		20
sec-Butylbenzene	95		98		70-130	3		20
tert-Butylbenzene	92		97		70-130	5		20
o-Chlorotoluene	94		97		70-130	3		20
p-Chlorotoluene	94		98		70-130	4		20
1,2-Dibromo-3-chloropropane	95		99		70-130	4		20
Hexachlorobutadiene	94		97		70-130	3		20
Isopropylbenzene	92		97		70-130	5		20
p-Isopropyltoluene	93		99		70-130	6		20
Naphthalene	93		99		70-130	6		20
n-Propylbenzene	94		98		70-130	4		20
1,2,3-Trichlorobenzene	93		97		70-130	4		20
1,2,4-Trichlorobenzene	98		98		70-130	0		20
1,3,5-Trimethylbenzene	94		101		70-130	7		20
1,2,4-Trimethylbenzene	96		95		70-130	1		20
Diethyl ether	87		87		70-130	0		20
Diisopropyl Ether	101		110		70-130	9		20
Ethyl-Tert-Butyl-Ether	96		105		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1018777-3 WG1018777-4								
Tertiary-Amyl Methyl Ether	103		103		70-130	0		20
1,4-Dioxane	107		115		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		118		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	103		102		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8270D
Analytical Date: 06/30/17 22:55
Analyst: SZ
Percent Solids: 34%

Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	380	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	480	--	1
Hexachlorobenzene	ND		ug/kg	290	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	430	--	1
2-Chloronaphthalene	ND		ug/kg	480	--	1
1,2-Dichlorobenzene	ND		ug/kg	480	--	1
1,3-Dichlorobenzene	ND		ug/kg	480	--	1
1,4-Dichlorobenzene	ND		ug/kg	480	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	480	--	1
2,4-Dinitrotoluene	ND		ug/kg	480	--	1
2,6-Dinitrotoluene	ND		ug/kg	480	--	1
Azobenzene	ND		ug/kg	480	--	1
Fluoranthene	490		ug/kg	290	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	480	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	570	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	520	--	1
Hexachlorobutadiene	ND		ug/kg	480	--	1
Hexachloroethane	ND		ug/kg	380	--	1
Isophorone	ND		ug/kg	430	--	1
Naphthalene	ND		ug/kg	480	--	1
Nitrobenzene	ND		ug/kg	430	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	480	--	1
Butyl benzyl phthalate	ND		ug/kg	480	--	1
Di-n-butylphthalate	ND		ug/kg	480	--	1
Di-n-octylphthalate	ND		ug/kg	480	--	1
Diethyl phthalate	ND		ug/kg	480	--	1
Dimethyl phthalate	ND		ug/kg	480	--	1
Benzo(a)anthracene	ND		ug/kg	290	--	1
Benzo(a)pyrene	ND		ug/kg	380	--	1
Benzo(b)fluoranthene	340		ug/kg	290	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01 Date Collected: 06/28/17 09:00

Client ID: IRON SLUDGE LAGOON-1 Date Received: 06/28/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	290	--	1
Chrysene	ND		ug/kg	290	--	1
Acenaphthylene	ND		ug/kg	380	--	1
Anthracene	ND		ug/kg	290	--	1
Benzo(ghi)perylene	ND		ug/kg	380	--	1
Fluorene	ND		ug/kg	480	--	1
Phenanthrene	420		ug/kg	290	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	290	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	380	--	1
Pyrene	380		ug/kg	290	--	1
Aniline	ND		ug/kg	570	--	1
4-Chloroaniline	ND		ug/kg	480	--	1
Dibenzofuran	ND		ug/kg	480	--	1
2-Methylnaphthalene	ND		ug/kg	570	--	1
Acetophenone	ND		ug/kg	480	--	1
2,4,6-Trichlorophenol	ND		ug/kg	290	--	1
2-Chlorophenol	ND		ug/kg	480	--	1
2,4-Dichlorophenol	ND		ug/kg	430	--	1
2,4-Dimethylphenol	ND		ug/kg	480	--	1
2-Nitrophenol	ND		ug/kg	1000	--	1
4-Nitrophenol	ND		ug/kg	670	--	1
2,4-Dinitrophenol	ND		ug/kg	2300	--	1
Pentachlorophenol	ND		ug/kg	960	--	1
Phenol	ND		ug/kg	480	--	1
2-Methylphenol	ND		ug/kg	480	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	690	--	1
2,4,5-Trichlorophenol	ND		ug/kg	480	--	1
Pyridine	ND		ug/kg	520	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		30-130
Phenol-d6	94		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	83		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	69		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8270D
Analytical Date: 06/30/17 23:20
Analyst: SZ
Percent Solids: 39%

Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	340	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	420	--	1
Hexachlorobenzene	ND		ug/kg	250	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	380	--	1
2-Chloronaphthalene	ND		ug/kg	420	--	1
1,2-Dichlorobenzene	ND		ug/kg	420	--	1
1,3-Dichlorobenzene	ND		ug/kg	420	--	1
1,4-Dichlorobenzene	ND		ug/kg	420	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	420	--	1
2,4-Dinitrotoluene	ND		ug/kg	420	--	1
2,6-Dinitrotoluene	ND		ug/kg	420	--	1
Azobenzene	ND		ug/kg	420	--	1
Fluoranthene	440		ug/kg	250	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	420	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	510	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	460	--	1
Hexachlorobutadiene	ND		ug/kg	420	--	1
Hexachloroethane	ND		ug/kg	340	--	1
Isophorone	ND		ug/kg	380	--	1
Naphthalene	ND		ug/kg	420	--	1
Nitrobenzene	ND		ug/kg	380	--	1
Bis(2-ethylhexyl)phthalate	9400		ug/kg	420	--	1
Butyl benzyl phthalate	ND		ug/kg	420	--	1
Di-n-butylphthalate	ND		ug/kg	420	--	1
Di-n-octylphthalate	ND		ug/kg	420	--	1
Diethyl phthalate	ND		ug/kg	420	--	1
Dimethyl phthalate	ND		ug/kg	420	--	1
Benzo(a)anthracene	ND		ug/kg	250	--	1
Benzo(a)pyrene	ND		ug/kg	340	--	1
Benzo(b)fluoranthene	ND		ug/kg	250	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02 Date Collected: 06/28/17 09:15

Client ID: IRON SLUDGE LAGOON-2 Date Received: 06/28/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	250	--	1
Chrysene	ND		ug/kg	250	--	1
Acenaphthylene	ND		ug/kg	340	--	1
Anthracene	ND		ug/kg	250	--	1
Benzo(ghi)perylene	ND		ug/kg	340	--	1
Fluorene	ND		ug/kg	420	--	1
Phenanthrene	570		ug/kg	250	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	250	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	340	--	1
Pyrene	430		ug/kg	250	--	1
Aniline	ND		ug/kg	510	--	1
4-Chloroaniline	ND		ug/kg	420	--	1
Dibenzofuran	ND		ug/kg	420	--	1
2-Methylnaphthalene	ND		ug/kg	510	--	1
Acetophenone	ND		ug/kg	420	--	1
2,4,6-Trichlorophenol	ND		ug/kg	250	--	1
2-Chlorophenol	ND		ug/kg	420	--	1
2,4-Dichlorophenol	ND		ug/kg	380	--	1
2,4-Dimethylphenol	ND		ug/kg	420	--	1
2-Nitrophenol	ND		ug/kg	910	--	1
4-Nitrophenol	ND		ug/kg	590	--	1
2,4-Dinitrophenol	ND		ug/kg	2000	--	1
Pentachlorophenol	ND		ug/kg	840	--	1
Phenol	ND		ug/kg	420	--	1
2-Methylphenol	ND		ug/kg	420	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	610	--	1
2,4,5-Trichlorophenol	ND		ug/kg	420	--	1
Pyridine	ND		ug/kg	460	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		30-130
Phenol-d6	68		30-130
Nitrobenzene-d5	83		30-130
2-Fluorobiphenyl	75		30-130
2,4,6-Tribromophenol	77		30-130
4-Terphenyl-d14	80		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8270D
Analytical Date: 06/30/17 23:46
Analyst: SZ
Percent Solids: 46%

Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	290	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	360	--	1
Hexachlorobenzene	ND		ug/kg	220	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	330	--	1
2-Chloronaphthalene	ND		ug/kg	360	--	1
1,2-Dichlorobenzene	ND		ug/kg	360	--	1
1,3-Dichlorobenzene	ND		ug/kg	360	--	1
1,4-Dichlorobenzene	ND		ug/kg	360	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	360	--	1
2,4-Dinitrotoluene	ND		ug/kg	360	--	1
2,6-Dinitrotoluene	ND		ug/kg	360	--	1
Azobenzene	ND		ug/kg	360	--	1
Fluoranthene	570		ug/kg	220	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	360	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	440	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	390	--	1
Hexachlorobutadiene	ND		ug/kg	360	--	1
Hexachloroethane	ND		ug/kg	290	--	1
Isophorone	ND		ug/kg	330	--	1
Naphthalene	ND		ug/kg	360	--	1
Nitrobenzene	ND		ug/kg	330	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	360	--	1
Butyl benzyl phthalate	ND		ug/kg	360	--	1
Di-n-butylphthalate	ND		ug/kg	360	--	1
Di-n-octylphthalate	ND		ug/kg	360	--	1
Diethyl phthalate	ND		ug/kg	360	--	1
Dimethyl phthalate	ND		ug/kg	360	--	1
Benzo(a)anthracene	270		ug/kg	220	--	1
Benzo(a)pyrene	ND		ug/kg	290	--	1
Benzo(b)fluoranthene	330		ug/kg	220	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722002

Project Number: 171521.52 **Report Date:** 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03 Date Collected: 06/28/17 09:30

Client ID: IRON SLUDGE LAGOON-3 Date Received: 06/28/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	220	--	1
Chrysene	260		ug/kg	220	--	1
Acenaphthylene	ND		ug/kg	290	--	1
Anthracene	ND		ug/kg	220	--	1
Benzo(ghi)perylene	ND		ug/kg	290	--	1
Fluorene	ND		ug/kg	360	--	1
Phenanthrene	470		ug/kg	220	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	220	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	290	--	1
Pyrene	500		ug/kg	220	--	1
Aniline	ND		ug/kg	440	--	1
4-Chloroaniline	ND		ug/kg	360	--	1
Dibenzofuran	ND		ug/kg	360	--	1
2-Methylnaphthalene	ND		ug/kg	440	--	1
Acetophenone	ND		ug/kg	360	--	1
2,4,6-Trichlorophenol	ND		ug/kg	220	--	1
2-Chlorophenol	ND		ug/kg	360	--	1
2,4-Dichlorophenol	ND		ug/kg	330	--	1
2,4-Dimethylphenol	ND		ug/kg	360	--	1
2-Nitrophenol	ND		ug/kg	790	--	1
4-Nitrophenol	ND		ug/kg	510	--	1
2,4-Dinitrophenol	ND		ug/kg	1800	--	1
Pentachlorophenol	ND		ug/kg	730	--	1
Phenol	ND		ug/kg	360	--	1
2-Methylphenol	ND		ug/kg	360	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	520	--	1
2,4,5-Trichlorophenol	ND		ug/kg	360	--	1
Pyridine	ND		ug/kg	390	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		30-130
Phenol-d6	91		30-130
Nitrobenzene-d5	99		30-130
2-Fluorobiphenyl	88		30-130
2,4,6-Tribromophenol	76		30-130
4-Terphenyl-d14	69		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/30/17 18:29
Analyst: KV

Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:26

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG1018178-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/30/17 18:29
Analyst: KV

Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:26

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG1018178-1					
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 EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/30/17 18:29
Analyst: KV

Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:26

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG1018178-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		30-130
Phenol-d6	70		30-130
Nitrobenzene-d5	69		30-130
2-Fluorobiphenyl	73		30-130
2,4,6-Tribromophenol	83		30-130
4-Terphenyl-d14	74		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG1018178-2 WG1018178-3								
Acenaphthene	81		77		40-140	5		30
1,2,4-Trichlorobenzene	72		68		40-140	6		30
Hexachlorobenzene	81		78		40-140	4		30
Bis(2-chloroethyl)ether	66		63		40-140	5		30
2-Chloronaphthalene	74		72		40-140	3		30
1,2-Dichlorobenzene	68		64		40-140	6		30
1,3-Dichlorobenzene	66		62		40-140	6		30
1,4-Dichlorobenzene	67		63		40-140	6		30
3,3'-Dichlorobenzidine	72		67		40-140	7		30
2,4-Dinitrotoluene	87		86		40-140	1		30
2,6-Dinitrotoluene	80		82		40-140	2		30
Azobenzene	79		77		40-140	3		30
Fluoranthene	76		74		40-140	3		30
4-Bromophenyl phenyl ether	81		79		40-140	3		30
Bis(2-chloroisopropyl)ether	69		64		40-140	8		30
Bis(2-chloroethoxy)methane	71		69		40-140	3		30
Hexachlorobutadiene	74		69		40-140	7		30
Hexachloroethane	70		66		40-140	6		30
Isophorone	72		71		40-140	1		30
Naphthalene	72		68		40-140	6		30
Nitrobenzene	72		68		40-140	6		30
Bis(2-ethylhexyl)phthalate	82		78		40-140	5		30
Butyl benzyl phthalate	80		80		40-140	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG1018178-2 WG1018178-3								
Di-n-butylphthalate	84		81		40-140	4		30
Di-n-octylphthalate	85		81		40-140	5		30
Diethyl phthalate	84		80		40-140	5		30
Dimethyl phthalate	74		75		40-140	1		30
Benzo(a)anthracene	71		69		40-140	3		30
Benzo(a)pyrene	71		69		40-140	3		30
Benzo(b)fluoranthene	74		70		40-140	6		30
Benzo(k)fluoranthene	68		67		40-140	1		30
Chrysene	70		69		40-140	1		30
Acenaphthylene	74		74		40-140	0		30
Anthracene	77		74		40-140	4		30
Benzo(ghi)perylene	72		69		40-140	4		30
Fluorene	81		78		40-140	4		30
Phenanthrene	76		73		40-140	4		30
Dibenzo(a,h)anthracene	73		68		40-140	7		30
Indeno(1,2,3-cd)pyrene	74		71		40-140	4		30
Pyrene	74		73		40-140	1		30
Aniline	54		51		40-140	6		30
4-Chloroaniline	63		64		40-140	2		30
Dibenzofuran	80		77		40-140	4		30
2-Methylnaphthalene	74		72		40-140	3		30
Acetophenone	77		74		40-140	4		30
2,4,6-Trichlorophenol	81		80		30-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG1018178-2 WG1018178-3								
2-Chlorophenol	72		69		30-130	4		30
2,4-Dichlorophenol	78		77		30-130	1		30
2,4-Dimethylphenol	75		73		30-130	3		30
2-Nitrophenol	79		78		30-130	1		30
4-Nitrophenol	87		86		30-130	1		30
2,4-Dinitrophenol	56		48		30-130	15		30
Pentachlorophenol	74		74		30-130	0		30
Phenol	65		64		30-130	2		30
2-Methylphenol	74		73		30-130	1		30
3-Methylphenol/4-Methylphenol	74		73		30-130	1		30
2,4,5-Trichlorophenol	79		79		30-130	0		30
Pyridine	41		40		30-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		69		30-130
Phenol-d6	73		71		30-130
Nitrobenzene-d5	74		70		30-130
2-Fluorobiphenyl	76		73		30-130
2,4,6-Tribromophenol	92		87		30-130
4-Terphenyl-d14	76		73		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 1,8015C(M)
Analytical Date: 06/30/17 17:36
Analyst: DG
Percent Solids: 34%

Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	326000		ug/kg	290000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 1,8015C(M)
Analytical Date: 06/30/17 18:09
Analyst: DG
Percent Solids: 39%

Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	290000		ug/kg	238000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 1,8015C(M)
Analytical Date: 06/30/17 18:42
Analyst: DG
Percent Solids: 46%

Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	263000		ug/kg	184000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 06/30/17 16:30
Analyst: DG

Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:24

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-03 Batch: WG1018177-1					
TPH	ND		ug/kg	88800	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-03 Batch: WG1018177-2								
TPH	120		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	76				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1018177-3 QC Sample: L1722002-01 Client ID: IRON SLUDGE LAGOON-1						
TPH	326000	614000	ug/kg	**61**	Q	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		78		40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8082A
Analytical Date: 06/30/17 21:45
Analyst: HT
Percent Solids: 34%

Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 02:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	269	--	1	A
Aroclor 1221	ND		ug/kg	269	--	1	A
Aroclor 1232	ND		ug/kg	269	--	1	A
Aroclor 1242	ND		ug/kg	269	--	1	A
Aroclor 1248	ND		ug/kg	269	--	1	A
Aroclor 1254	ND		ug/kg	269	--	1	A
Aroclor 1260	1420		ug/kg	269	--	1	B
Aroclor 1262	ND		ug/kg	269	--	1	A
Aroclor 1268	ND		ug/kg	269	--	1	A
PCBs, Total	1420		ug/kg	269	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8082A
Analytical Date: 06/30/17 21:57
Analyst: HT
Percent Solids: 39%

Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 02:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	227	--	1	A
Aroclor 1221	ND		ug/kg	227	--	1	A
Aroclor 1232	ND		ug/kg	227	--	1	A
Aroclor 1242	ND		ug/kg	227	--	1	A
Aroclor 1248	ND		ug/kg	227	--	1	A
Aroclor 1254	ND		ug/kg	227	--	1	A
Aroclor 1260	ND		ug/kg	227	--	1	B
Aroclor 1262	ND		ug/kg	227	--	1	A
Aroclor 1268	ND		ug/kg	227	--	1	A
PCBs, Total	ND		ug/kg	227	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8082A
Analytical Date: 06/30/17 22:09
Analyst: HT
Percent Solids: 46%

Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 02:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	206	--	1	A
Aroclor 1221	ND		ug/kg	206	--	1	A
Aroclor 1232	ND		ug/kg	206	--	1	A
Aroclor 1242	ND		ug/kg	206	--	1	A
Aroclor 1248	ND		ug/kg	206	--	1	A
Aroclor 1254	429		ug/kg	206	--	1	A
Aroclor 1260	ND		ug/kg	206	--	1	A
Aroclor 1262	ND		ug/kg	206	--	1	A
Aroclor 1268	ND		ug/kg	206	--	1	A
PCBs, Total	429		ug/kg	206	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 06/30/17 23:36
Analyst: HT

Extraction Method: EPA 3540C
Extraction Date: 06/29/17 02:45
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-03 Batch: WG1018163-1						
Aroclor 1016	ND		ug/kg	86.6	--	A
Aroclor 1221	ND		ug/kg	86.6	--	A
Aroclor 1232	ND		ug/kg	86.6	--	A
Aroclor 1242	ND		ug/kg	86.6	--	A
Aroclor 1248	ND		ug/kg	86.6	--	A
Aroclor 1254	ND		ug/kg	86.6	--	A
Aroclor 1260	ND		ug/kg	86.6	--	A
Aroclor 1262	ND		ug/kg	86.6	--	A
Aroclor 1268	ND		ug/kg	86.6	--	A
PCBs, Total	ND		ug/kg	86.6	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-03 Batch: WG1018163-2 WG1018163-3									
Aroclor 1016	72		66		40-140	9		30	A
Aroclor 1260	75		70		40-140	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		68		30-150	A
Decachlorobiphenyl	81		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		60		30-150	B
Decachlorobiphenyl	77		70		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8081B
Analytical Date: 07/05/17 14:24
Analyst: KEG
Percent Solids: 34%

Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	67.0	--	1	A
Lindane	ND		ug/kg	22.3	--	1	A
Alpha-BHC	ND		ug/kg	27.9	--	1	A
Beta-BHC	ND		ug/kg	67.0	--	1	A
Heptachlor	ND		ug/kg	33.5	--	1	A
Aldrin	ND		ug/kg	67.0	--	1	B
Heptachlor epoxide	ND		ug/kg	126	--	1	A
Endrin	ND		ug/kg	27.9	--	1	A
Endrin ketone	ND		ug/kg	67.0	--	1	A
Dieldrin	ND		ug/kg	41.8	--	1	B
4,4'-DDE	ND		ug/kg	67.0	--	1	A
4,4'-DDD	ND		ug/kg	67.0	--	1	A
4,4'-DDT	ND		ug/kg	126	--	1	A
Endosulfan I	ND		ug/kg	67.0	--	1	A
Endosulfan II	ND		ug/kg	67.0	--	1	A
Endosulfan sulfate	ND		ug/kg	27.9	--	1	A
Methoxychlor	ND		ug/kg	126	--	1	A
Chlordane	ND		ug/kg	544	--	1	A
Hexachlorobenzene	ND		ug/kg	67.0	--	1	A
Toxaphene	ND		ug/kg	1260	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	73		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8151A
Analytical Date: 06/30/17 21:22
Analyst: DM
Percent Solids: 34%
Methylation Date: 06/30/17 07:00

Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/29/17 17:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	9400	--	1	A
MCPA	ND		ug/kg	9400	--	1	A
Dalapon	ND		ug/kg	94	--	1	A
Dicamba	ND		ug/kg	94	--	1	A
Dichloroprop	ND		ug/kg	94	--	1	A
2,4-D	ND		ug/kg	94	--	1	A
2,4-DB	ND		ug/kg	94	--	1	A
2,4,5-T	ND		ug/kg	94	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	94	--	1	A
Dinoseb	ND		ug/kg	94	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	87		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8081B
Analytical Date: 07/05/17 14:41
Analyst: KEG
Percent Solids: 39%

Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	56.8	--	1	A
Lindane	ND		ug/kg	18.9	--	1	A
Alpha-BHC	ND		ug/kg	23.7	--	1	A
Beta-BHC	ND		ug/kg	56.8	--	1	A
Heptachlor	ND		ug/kg	28.4	--	1	A
Aldrin	ND		ug/kg	56.8	--	1	A
Heptachlor epoxide	ND		ug/kg	106	--	1	A
Endrin	ND		ug/kg	23.7	--	1	A
Endrin ketone	ND		ug/kg	56.8	--	1	A
Dieldrin	ND		ug/kg	35.5	--	1	A
4,4'-DDE	ND		ug/kg	56.8	--	1	A
4,4'-DDD	ND		ug/kg	56.8	--	1	A
4,4'-DDT	ND		ug/kg	106	--	1	A
Endosulfan I	ND		ug/kg	56.8	--	1	A
Endosulfan II	ND		ug/kg	56.8	--	1	A
Endosulfan sulfate	ND		ug/kg	23.7	--	1	A
Methoxychlor	ND		ug/kg	106	--	1	A
Chlordane	ND		ug/kg	461	--	1	A
Hexachlorobenzene	ND		ug/kg	56.8	--	1	A
Toxaphene	ND		ug/kg	1060	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	62		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8151A
Analytical Date: 06/30/17 21:41
Analyst: DM
Percent Solids: 39%
Methylation Date: 06/30/17 07:25

Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/29/17 17:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	8600	--	1	A
MCPA	ND		ug/kg	8600	--	1	A
Dalapon	ND		ug/kg	86	--	1	A
Dicamba	ND		ug/kg	86	--	1	A
Dichloroprop	ND		ug/kg	86	--	1	A
2,4-D	ND		ug/kg	86	--	1	A
2,4-DB	ND		ug/kg	86	--	1	A
2,4,5-T	ND		ug/kg	86	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	86	--	1	A
Dinoseb	ND		ug/kg	86	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	85		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8081B
Analytical Date: 07/05/17 14:58
Analyst: KEG
Percent Solids: 46%

Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	50.4	--	1	A
Lindane	ND		ug/kg	16.8	--	1	A
Alpha-BHC	ND		ug/kg	21.0	--	1	A
Beta-BHC	ND		ug/kg	50.4	--	1	A
Heptachlor	ND		ug/kg	25.2	--	1	A
Aldrin	ND		ug/kg	50.4	--	1	A
Heptachlor epoxide	ND		ug/kg	94.5	--	1	A
Endrin	ND		ug/kg	21.0	--	1	A
Endrin ketone	ND		ug/kg	50.4	--	1	A
Dieldrin	ND		ug/kg	31.5	--	1	A
4,4'-DDE	ND		ug/kg	50.4	--	1	A
4,4'-DDD	ND		ug/kg	50.4	--	1	A
4,4'-DDT	ND		ug/kg	94.5	--	1	A
Endosulfan I	ND		ug/kg	50.4	--	1	A
Endosulfan II	ND		ug/kg	50.4	--	1	A
Endosulfan sulfate	ND		ug/kg	21.0	--	1	A
Methoxychlor	ND		ug/kg	94.5	--	1	A
Chlordane	ND		ug/kg	410	--	1	A
Hexachlorobenzene	ND		ug/kg	50.4	--	1	A
Toxaphene	ND		ug/kg	945	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Sludge
Analytical Method: 97,8151A
Analytical Date: 06/30/17 22:20
Analyst: DM
Percent Solids: 46%
Methylation Date: 06/30/17 07:25

Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/29/17 17:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	7100	--	1	A
MCPA	ND		ug/kg	7100	--	1	A
Dalapon	ND		ug/kg	71	--	1	A
Dicamba	ND		ug/kg	71	--	1	A
Dichloroprop	ND		ug/kg	71	--	1	A
2,4-D	ND		ug/kg	71	--	1	A
2,4-DB	ND		ug/kg	71	--	1	A
2,4,5-T	ND		ug/kg	71	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	71	--	1	A
Dinoseb	ND		ug/kg	71	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	82		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 07/05/17 13:00
Analyst: KEG

Extraction Method: EPA 3540C
Extraction Date: 06/29/17 03:43
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-03 Batch: WG1018176-1						
Delta-BHC	ND		ug/kg	20.6	--	A
Lindane	ND		ug/kg	6.86	--	A
Alpha-BHC	ND		ug/kg	8.58	--	A
Beta-BHC	ND		ug/kg	20.6	--	A
Heptachlor	ND		ug/kg	10.3	--	A
Aldrin	ND		ug/kg	20.6	--	A
Heptachlor epoxide	ND		ug/kg	38.6	--	A
Endrin	ND		ug/kg	8.58	--	A
Endrin ketone	ND		ug/kg	20.6	--	A
Dieldrin	ND		ug/kg	12.9	--	A
4,4'-DDE	ND		ug/kg	20.6	--	A
4,4'-DDD	ND		ug/kg	20.6	--	A
4,4'-DDT	ND		ug/kg	38.6	--	A
Endosulfan I	ND		ug/kg	20.6	--	A
Endosulfan II	ND		ug/kg	20.6	--	A
Endosulfan sulfate	ND		ug/kg	8.58	--	A
Methoxychlor	ND		ug/kg	38.6	--	A
Chlordane	ND		ug/kg	167	--	A
Hexachlorobenzene	ND		ug/kg	20.6	--	A
Toxaphene	ND		ug/kg	386	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 06/30/17 18:45
Analyst: DM

Extraction Method: EPA 8151A
Extraction Date: 06/29/17 17:20

Methylation Date: 06/30/17 07:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-03 Batch: WG1018521-1						
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
Dinoseb	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	67		30-150	A
DCAA	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-03 Batch: WG1018176-2 WG1018176-3									
Delta-BHC	84		76		40-140	10		30	A
Lindane	78		72		40-140	8		30	A
Alpha-BHC	85		78		40-140	9		30	A
Beta-BHC	91		86		40-140	6		30	A
Heptachlor	70		64		40-140	9		30	A
Aldrin	81		73		40-140	10		30	A
Heptachlor epoxide	84		75		40-140	11		30	A
Endrin	86		76		40-140	12		30	A
Endrin ketone	70		65		40-140	7		30	A
Dieldrin	89		78		40-140	13		30	A
4,4'-DDE	95		84		40-140	12		30	A
4,4'-DDD	77		67		40-140	14		30	A
4,4'-DDT	80		72		40-140	11		30	A
Endosulfan I	82		73		40-140	12		30	A
Endosulfan II	82		73		40-140	12		30	A
Endosulfan sulfate	61		56		40-140	9		30	A
Methoxychlor	72		66		40-140	9		30	A
Hexachlorobenzene	80		72		40-140	11		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-03 Batch: WG1018176-2 WG1018176-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		72		30-150	B
Decachlorobiphenyl	74		68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		70		30-150	A
Decachlorobiphenyl	84		69		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-03 Batch: WG1018176-4 WG1018176-5									
Toxaphene	73		70		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		71		30-150	B
Decachlorobiphenyl	69		66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		70		30-150	A
Decachlorobiphenyl	68		73		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-03 Batch: WG1018521-2 WG1018521-3									
MCPP	113		96		40-140	16		30	A
MCPA	104		90		40-140	14		30	A
Dalapon	63		59		40-140	7		30	A
Dicamba	80		67		40-140	18		30	A
Dichloroprop	86		69		40-140	22		30	A
2,4-D	90		97		40-140	7		30	A
2,4-DB	80		64		40-140	22		30	A
2,4,5-T	78		70		40-140	11		30	A
2,4,5-TP (Silvex)	73		69		40-140	6		30	A
Dinoseb	**4**	Q	**3**	Q	40-140	**39**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	71		55		30-150	A
DCAA	79		43		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge
Percent Solids: 34%
Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified

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	5.68	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Arsenic, Total	98.9		mg/kg	1.14	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Barium, Total	76.3		mg/kg	1.14	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.568	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Cadmium, Total	2.38		mg/kg	1.14	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Chromium, Total	32.6		mg/kg	1.14	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Lead, Total	176		mg/kg	5.68	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Mercury, Total	1.91		mg/kg	0.182	--	1	06/29/17 09:30	06/30/17 13:03	EPA 7471B	97,7471B	MG
Nickel, Total	19.1		mg/kg	2.84	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	5.68	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Silver, Total	1.61		mg/kg	1.14	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	5.68	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Vanadium, Total	46.8		mg/kg	1.14	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM
Zinc, Total	357		mg/kg	5.68	--	1	06/29/17 21:50	06/30/17 08:35	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge
Percent Solids: 39%

Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	7.83		mg/kg	5.11	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Arsenic, Total	118		mg/kg	1.02	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Barium, Total	88.1		mg/kg	1.02	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Beryllium, Total	0.532		mg/kg	0.511	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Cadmium, Total	1.59		mg/kg	1.02	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Chromium, Total	39.3		mg/kg	1.02	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Lead, Total	367		mg/kg	5.11	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Mercury, Total	8.14		mg/kg	0.835	--	5	06/29/17 09:30	06/30/17 14:19	EPA 7471B	97,7471B	MG
Nickel, Total	17.8		mg/kg	2.56	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Selenium, Total	12.3		mg/kg	5.11	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	1.02	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	5.11	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Vanadium, Total	35.6		mg/kg	1.02	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM
Zinc, Total	290		mg/kg	5.11	--	1	06/29/17 21:50	06/30/17 08:40	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge
Percent Solids: 46%

Date Collected: 06/28/17 09:30
Date Received: 06/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.17		mg/kg	4.25	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Arsenic, Total	63.7		mg/kg	0.850	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Barium, Total	81.8		mg/kg	0.850	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.425	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Cadmium, Total	1.28		mg/kg	0.850	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Chromium, Total	26.0		mg/kg	0.850	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Lead, Total	178		mg/kg	4.25	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Mercury, Total	1.71		mg/kg	0.145	--	1	06/29/17 09:30	06/30/17 13:07	EPA 7471B	97,7471B	MG
Nickel, Total	13.7		mg/kg	2.12	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	4.25	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.850	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	4.25	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Vanadium, Total	31.5		mg/kg	0.850	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM
Zinc, Total	227		mg/kg	4.25	--	1	06/29/17 21:50	06/30/17 08:45	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

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): 01-03 Batch: WG1018217-1										
Mercury, Total	ND		mg/kg	0.083	--	1	06/29/17 09:30	06/30/17 11:04	97,7471B	MG

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): 01-03 Batch: WG1018558-1										
Antimony, Total	ND		mg/kg	2.00	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Arsenic, Total	ND		mg/kg	0.400	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Barium, Total	ND		mg/kg	0.400	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.200	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.400	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Chromium, Total	ND		mg/kg	0.400	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Lead, Total	ND		mg/kg	2.00	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Nickel, Total	ND		mg/kg	1.00	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Selenium, Total	ND		mg/kg	2.00	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Silver, Total	ND		mg/kg	0.400	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Thallium, Total	ND		mg/kg	2.00	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Vanadium, Total	ND		mg/kg	0.400	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM
Zinc, Total	ND		mg/kg	2.00	--	1	06/29/17 21:50	06/30/17 08:21	97,6010C	AM

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1018217-2 WG1018217-3 SRM Lot Number: D093-540								
Mercury, Total	95		105		72-168	10		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1018558-2 WG1018558-3 SRM Lot Number: D093-540								
Antimony, Total	193		195		2-204	1		30
Arsenic, Total	86		90		70-130	5		30
Barium, Total	98		100		83-117	2		30
Beryllium, Total	95		99		83-117	4		30
Cadmium, Total	103		107		83-117	4		30
Chromium, Total	98		101		80-120	3		30
Lead, Total	103		104		82-117	1		30
Nickel, Total	101		103		83-117	2		30
Selenium, Total	106		106		78-122	0		30
Silver, Total	101		103		76-124	2		30
Thallium, Total	105		108		79-121	3		30
Vanadium, Total	100		102		78-122	2		30
Zinc, Total	102		104		83-117	2		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge
Date Collected: 06/28/17 09:00
Date Received: 06/28/17
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	1600		umhos/cm	10	--	1	-	06/29/17 08:46	1,9050A	VB
Solids, Total	34.4		%	0.100	NA	1	-	06/29/17 08:40	121,2540G	RI
pH (H)	9.4		SU	-	NA	1	-	06/29/17 08:54	1,9045D	KA
Flash Point	>150		deg F	70	NA	1	-	06/29/17 09:05	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:27	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:20	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge
Date Collected: 06/28/17 09:15
Date Received: 06/28/17
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	1200		umhos/cm	10	--	1	-	06/29/17 08:46	1,9050A	VB
Solids, Total	38.7		%	0.100	NA	1	-	06/29/17 08:40	121,2540G	RI
pH (H)	8.3		SU	-	NA	1	-	06/29/17 08:54	1,9045D	KA
Flash Point	>150		deg F	70	NA	1	-	06/29/17 09:05	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:28	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:20	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722002-03
Client ID: IRON SLUDGE LAGOON-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge
Date Collected: 06/28/17 09:30
Date Received: 06/28/17
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	1100		umhos/cm	10	--	1	-	06/29/17 08:46	1,9050A	VB
Solids, Total	45.6		%	0.100	NA	1	-	06/29/17 08:40	121,2540G	RI
pH (H)	8.9		SU	-	NA	1	-	06/29/17 08:54	1,9045D	KA
Flash Point	>150		deg F	70	NA	1	-	06/29/17 09:05	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:28	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:20	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722002
Report Date: 07/05/17

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): 01-03 Batch: WG1018505-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:19	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1018508-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	06/29/17 22:05	06/29/17 23:26	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722002

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1018242-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1018267-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1018415-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1018505-2								
Sulfide, Reactive	108		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1018508-2								
Cyanide, Reactive	51		-		30-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1018267-2 QC Sample: L1722002-01 Client ID: IRON SLUDGE LAGOON-1						
Specific Conductance @ 25 C	1600	1100	umhos/cm	**37**	Q	20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

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(*)
L1722002-01A	Vial MeOH preserved	A	NA		3.8	Y	Absent		MCP-8260HLW-10(14)
L1722002-01B	Vial water preserved	A	NA		3.8	Y	Absent	29-JUN-17 03:51	MCP-8260HLW-10(14)
L1722002-01C	Vial water preserved	A	NA		3.8	Y	Absent	29-JUN-17 03:51	MCP-8260HLW-10(14)
L1722002-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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)
L1722002-01E	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),COND-9050(28)
L1722002-01F	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1722002-02A	Vial MeOH preserved	A	NA		3.8	Y	Absent		MCP-8260HLW-10(14)
L1722002-02B	Vial water preserved	A	NA		3.8	Y	Absent	29-JUN-17 03:51	MCP-8260HLW-10(14)
L1722002-02C	Vial water preserved	A	NA		3.8	Y	Absent	29-JUN-17 03:51	MCP-8260HLW-10(14)
L1722002-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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)
L1722002-02E	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),COND-9050(28)
L1722002-02F	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),MCP-8082-10-3540C(365),TPH-DRO-D(14)
L1722002-03A	Vial MeOH preserved	A	NA		3.8	Y	Absent		MCP-8260HLW-10(14)
L1722002-03B	Vial water preserved	A	NA		3.8	Y	Absent	29-JUN-17 03:51	MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722002
Report Date: 07/05/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1722002-03C	Vial water preserved	A	NA		3.8	Y	Absent	29-JUN-17 03:51	MCP-8260HLW-10(14)
L1722002-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	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)
L1722002-03E	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),COND-9050(28)
L1722002-03F	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),MCP-8082-10-3540C(365),TPH-DRO-D(14)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1722002
Project Number:	171521.52	**Report Date:**	07/05/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1722002
Project Number:	171521.52	**Report Date:**	07/05/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1722002
Project Number:	171521.52	**Report Date:**	07/05/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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: 6/28/17

ALPHA Job #: L1722002

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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
22002-01	Iron Sludge Lagoon - 1	6-28-17	9:00	Sludge	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
02	Iron Sludge Lagoon - 2	6-28-17	9:15	Sludge	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
03	Iron Sludge Lagoon - 3	6-28-17	9:30	Slude	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
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						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
Container Type						-	-	-	-	-	-	-	-	-	-	-	-		
Preservative						-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	6/28/17 12:27	AAL	6/28/17 1229
AAL	6/28/17 1810	[illegible]	6/28/17 18[illegible]

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1722002
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1018777-5	**Lab File ID**	: V04170630A04
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 06/30/17 08:29

Client Sample No.	Lab Sample ID	Analysis Date
WG1018777-3LCS	WG1018777-3	06/30/17 07:10
WG1018777-4LCSD	WG1018777-4	06/30/17 07:36
IRON SLUDGE LAGOON-1	L1722002-01	06/30/17 14:37
IRON SLUDGE LAGOON-2	L1722002-02	06/30/17 15:03
IRON SLUDGE LAGOON-3	L1722002-03	06/30/17 15:30

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1722002	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 06/30/17 07:10	
Lab File ID	: V04170630A01	Init. Calib. Date(s)	: 05/17/17	05/17/17
Sample No	: WG1018777-2	Init. Calib. Times	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	90	0
Dichlorodifluoromethane	0.277	0.269	-	2.9	20	87	0
Chloromethane	0.444	0.405	-	8.8	20	83	0
Vinyl chloride	0.327	0.301	-	8	20	84	0
Bromomethane	20	17.982	-	10.1	20	90	0
Chloroethane	0.184	0.148	-	19.6	20	73	0
Trichlorofluoromethane	0.422	0.401	-	5	20	85	0
Ethyl ether	0.14	0.122	-	12.9	20	77	0
1,1-Dichloroethene	0.27	0.195	-	27.8*	20	67	0
Carbon disulfide	1.177	0.776	-	34.1*	20	56	0
Methylene chloride	0.334	0.284	-	15	20	78	0
Acetone	0.068	0.077	-	-13.2	20	97	0
trans-1,2-Dichloroethene	0.304	0.245	-	19.4	20	73	0
Methyl tert-butyl ether	0.811	0.734	-	9.5	20	80	0
Diisopropyl ether	1.146	1.157	-	-1	20	89	0
1,1-Dichloroethane	0.604	0.525	-	13.1	20	78	0
Ethyl tert-butyl ether	1.034	0.998	-	3.5	20	85	0
cis-1,2-Dichloroethene	0.334	0.266	-	20.4*	20	73	0
2,2-Dichloropropane	0.443	0.4	-	9.7	20	82	-.01
Bromochloromethane	0.168	0.147	-	12.5	20	75	0
Chloroform	0.548	0.499	-	8.9	20	82	-.01
Carbon tetrachloride	0.4	0.406	-	-1.5	20	91	0
Tetrahydrofuran	0.089	0.108	-	-21.3*	20	111	0
Dibromofluoromethane	0.281	0.289	-	-2.8	20	91	0
1,1,1-Trichloroethane	0.466	0.464	-	0.4	20	91	0
2-Butanone	0.117	0.118	-	-0.9	20	81	0
1,1-Dichloropropene	0.383	0.343	-	10.4	20	78	0
Benzene	1.146	1.028	-	10.3	20	83	0
tert-Amyl methyl ether	0.768	0.794	-	-3.4	20	92	0
1,2-Dichloroethane-d4	0.258	0.284	-	-10.1	20	99	0
1,2-Dichloroethane	0.416	0.446	-	-7.2	20	96	0
Trichloroethene	0.311	0.29	-	6.8	20	84	0
Dibromomethane	0.184	0.178	-	3.3	20	86	0
1,2-Dichloropropane	0.332	0.319	-	3.9	20	85	0
Bromodichloromethane	0.409	0.423	-	-3.4	20	92	0
1,4-Dioxane	0.00259	0.00276	-	-6.6	20	92	0
cis-1,3-Dichloropropene	0.497	0.463	-	6.8	20	84	0
Chlorobenzene-d5	1	1	-	0	20	86	0
Toluene-d8	1.163	1.2	-	-3.2	20	87	0
Toluene	0.869	0.795	-	8.5	20	79	0
4-Methyl-2-pentanone	0.129	0.135	-	-4.7	20	89	0
Tetrachloroethene	0.425	0.392	-	7.8	20	79	0
trans-1,3-Dichloropropene	0.5	0.514	-	-2.8	20	87	0
1,1,2-Trichloroethane	0.262	0.253	-	3.4	20	80	0
Chlorodibromomethane	0.419	0.419	-	0	20	85	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1722002	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 06/30/17 07:10	
Lab File ID	: V04170630A01	**Init. Calib. Date(s)**	: 05/17/17	05/17/17
Sample No	: WG1018777-2	**Init. Calib. Times**	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,3-Dichloropropane	0.506	0.49	-	3.2	20	82	0
1,2-Dibromoethane	0.337	0.327	-	3	20	81	0
2-Hexanone	0.211	0.228	-	-8.1	20	91	0
Chlorobenzene	1.066	0.987	-	7.4	20	80	0
Ethylbenzene	1.671	1.541	-	7.8	20	80	0
1,1,1,2-Tetrachloroethane	0.403	0.388	-	3.7	20	82	0
p/m Xylene	0.677	0.625	-	7.7	20	79	0
o Xylene	0.645	0.584	-	9.5	20	77	0
Styrene	1.077	0.974	-	9.6	20	76	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	83	0
Bromoform	0.51	0.501	-	1.8	20	83	0
Isopropylbenzene	3.302	3.043	-	7.8	20	80	0
4-Bromofluorobenzene	0.879	0.906	-	-3.1	20	87	0
Bromobenzene	0.91	0.85	-	6.6	20	79	0
n-Propylbenzene	3.664	3.433	-	6.3	20	79	0
1,1,2,2-Tetrachloroethane	0.738	0.695	-	5.8	20	79	0
2-Chlorotoluene	2.226	2.089	-	6.2	20	81	0
1,3,5-Trimethylbenzene	2.765	2.604	-	5.8	20	81	0
1,2,3-Trichloropropane	0.543	0.52	-	4.2	20	79	0
4-Chlorotoluene	2.242	2.114	-	5.7	20	80	0
tert-Butylbenzene	2.324	2.145	-	7.7	20	79	0
1,2,4-Trimethylbenzene	2.763	2.652	-	4	20	80	0
sec-Butylbenzene	3.453	3.286	-	4.8	20	80	0
p-Isopropyltoluene	2.971	2.752	-	7.4	20	79	0
1,3-Dichlorobenzene	1.665	1.557	-	6.5	20	80	0
1,4-Dichlorobenzene	1.696	1.619	-	4.5	20	83	0
n-Butylbenzene	2.591	2.462	-	5	20	81	0
1,2-Dichlorobenzene	1.549	1.476	-	4.7	20	80	0
1,2-Dibromo-3-chloropropan	0.127	0.12	-	5.5	20	84	0
Hexachlorobutadiene	0.579	0.545	-	5.9	20	81	0
1,2,4-Trichlorobenzene	1.144	1.12	-	2.1	20	83	0
Naphthalene	2.459	2.283	-	7.2	20	78	0
1,2,3-Trichlorobenzene	1.06	0.985	-	7.1	20	78	0

* Value outside of QC limits.

I:\Pest11\170705a\11170705a-01.d

Data File Name	**11170705a-01.d**
Data File Path	**I:\Pest11\170705a**
Operator	**PEST11:keg**
Date Acquired	**7/5/2017 9:37**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170705a01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.96	700959533.9	% Breakdown
4,4'-DDE	4.31	3874060.43	
4,4'-DDD	4.76	14219929.44	2.52%
Endrin	4.70	506829659.7	% Breakdown
Endrin Aldehyde	5.17	3686853.897	
Endrin Ketone	5.66	10208075.01	2.67%
4,4'-DDT #2	5.57	1100130259.81	% Breakdown
4,4'-DDE #2	4.93	5209349.78	
4,4'-DDD #2	5.35	23646093.35	2.56%
Endrin #2	5.29	797868632	
Endrin Aldehyde #2	5.67	1964648.846	
Endrin Ketone #2	6.22	13676995.68	1.92%

######### Data File Path **I:\Pest17\150918**

wg1018176-1,2,3,4,5
L1722002-01,02,03

ANALYTICAL REPORT

Lab Number:	L1722222
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:	07/06/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1722222
Report Date: 07/06/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1722222-01	MARINE 10 A	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:05	06/29/17
L1722222-02	MARINE 10 B	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:15	06/29/17
L1722222-03	MARINE 10 C	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:25	06/29/17
L1722222-04	MARINE 10 D	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:35	06/29/17
L1722222-05	MARINE 10 E	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:45	06/29/17
L1722222-06	MARINE 10 F	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:55	06/29/17
L1722222-07	MARINE 10 G	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 09:05	06/29/17
L1722222-08	MARINE 10 H	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 09:15	06/29/17

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

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: L1722222
Report Date: 07/06/17

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:** L1722222
Project Number: 171521.52 **Report Date:** 07/06/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1722222-01 through -08, did not meet the method required minimum response factor on the lowest calibration standard for 2-butanone (0.0747), 4-methyl-2-pentanone (0.0944) and 1,4-dioxane (0.0019), as well as the average response factor for 2-butanone and 1,4-dioxane. The initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (138%), but within overall method criteria.

The continuing calibration standard, associated with L1722222-01 through -08, 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

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1722222-01 through -08: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question G:

L1722222-01 through -08: The sample has elevated detection limits due to the dilution required by the sample matrix. One or more of the target analytes did not achieve the requested CAM reporting limits.

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

Case Narrative (continued)

In reference to question H:

The surrogate recoveries for the following samples are outside the acceptance criteria for DCAA; however, the samples were not re-extracted due to coelution with obvious interferences. The results are not considered to be biased.

L1722222-02: 216%,261%

L1722222-03: 2130%,274%

L1722222-04: 906%,359%

L1722222-05: 2060%,290%

L1722222-06: 1140%,506%

L1722222-07: 2850%,574%

L1722222-08: 4810%,600%

The WG1018925-2/-3 LCS/LCSD recoveries, associated with L1722222-01 through -08, are below the acceptance criteria for dinoseb (5%/4%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

Total Metals

In reference to question H:

The WG1018961-3 LCSD recovery, associated with L1722222-01 through -08, is outside the acceptance criteria for antimony (217%). Re-analysis of the LCSD yielded an unacceptable recovery of 207%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 07/06/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 15:19
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	--	1
1,1-Dichloroethane	ND		ug/kg	1.9	--	1
Chloroform	ND		ug/kg	1.9	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	4.4	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	--	1
Tetrachloroethene	ND		ug/kg	1.2	--	1
Chlorobenzene	6.2		ug/kg	1.2	--	1
Trichlorofluoromethane	ND		ug/kg	5.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	--	1
Bromodichloromethane	ND		ug/kg	1.2	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	--	1
1,1-Dichloropropene	ND		ug/kg	5.0	--	1
Bromoform	ND		ug/kg	5.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	--	1
Benzene	ND		ug/kg	1.2	--	1
Toluene	ND		ug/kg	1.9	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	5.0	--	1
Bromomethane	ND		ug/kg	2.5	--	1
Vinyl chloride	ND		ug/kg	2.5	--	1
Chloroethane	ND		ug/kg	2.5	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	--	1
Trichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01 Date Collected: 06/29/17 08:05

Client ID: MARINE 10 A Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.5	--	1
p/m-Xylene	ND		ug/kg	2.5	--	1
o-Xylene	ND		ug/kg	2.5	--	1
Xylenes, Total	ND		ug/kg	2.5	--	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	5.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	5.0	--	1
Styrene	ND		ug/kg	2.5	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	45	--	1
Carbon disulfide	ND		ug/kg	5.0	--	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	5.0	--	1
Tetrahydrofuran	ND		ug/kg	5.0	--	1
2,2-Dichloropropane	ND		ug/kg	6.3	--	1
1,2-Dibromoethane	ND		ug/kg	5.0	--	1
1,3-Dichloropropane	ND		ug/kg	5.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	--	1
Bromobenzene	ND		ug/kg	6.3	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	5.0	--	1
o-Chlorotoluene	ND		ug/kg	5.0	--	1
p-Chlorotoluene	ND		ug/kg	5.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	--	1
Hexachlorobutadiene	ND		ug/kg	5.0	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	5.0	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	6.3	--	1
Diisopropyl Ether	ND		ug/kg	5.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.0	--	1
1,4-Dioxane	ND		ug/kg	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 15:45
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	7.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.76	--	1
1,2-Dichloropropane	ND		ug/kg	2.6	--	1
Dibromochloromethane	ND		ug/kg	0.76	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.76	--	1
Chlorobenzene	ND		ug/kg	0.76	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.76	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	--	1
Bromodichloromethane	ND		ug/kg	0.76	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.76	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.76	--	1
1,1-Dichloropropene	ND		ug/kg	3.0	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	--	1
Benzene	ND		ug/kg	0.76	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.76	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	1.5	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.76	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.76	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02 Date Collected: 06/29/17 08:15

Client ID: MARINE 10 B Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	1.5	--	1
Xylenes, Total	ND		ug/kg	1.5	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.76	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.76	--	1
Dibromomethane	ND		ug/kg	3.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	--	1
Styrene	ND		ug/kg	1.5	--	1
Dichlorodifluoromethane	ND		ug/kg	7.6	--	1
Acetone	ND		ug/kg	27	--	1
Carbon disulfide	ND		ug/kg	3.0	--	1
Methyl ethyl ketone	ND		ug/kg	7.6	--	1
Methyl isobutyl ketone	ND		ug/kg	7.6	--	1
2-Hexanone	ND		ug/kg	7.6	--	1
Bromochloromethane	ND		ug/kg	3.0	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	3.8	--	1
1,2-Dibromoethane	ND		ug/kg	3.0	--	1
1,3-Dichloropropane	ND		ug/kg	3.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.76	--	1
Bromobenzene	ND		ug/kg	3.8	--	1
n-Butylbenzene	ND		ug/kg	0.76	--	1
sec-Butylbenzene	ND		ug/kg	0.76	--	1
tert-Butylbenzene	ND		ug/kg	3.0	--	1
o-Chlorotoluene	ND		ug/kg	3.0	--	1
p-Chlorotoluene	ND		ug/kg	3.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.76	--	1
p-Isopropyltoluene	ND		ug/kg	0.76	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.76	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	--	1

Project Name: WYNN EVERETT
Lab Number: L1722222
Project Number: 171521.52
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.8	--	1
Diisopropyl Ether	ND		ug/kg	3.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.0	--	1
1,4-Dioxane	ND		ug/kg	30	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 16:11
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	--	1
1,1-Dichloroethane	ND		ug/kg	1.7	--	1
Chloroform	ND		ug/kg	1.7	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	4.0	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	--	1
Tetrachloroethene	ND		ug/kg	1.1	--	1
Chlorobenzene	ND		ug/kg	1.1	--	1
Trichlorofluoromethane	ND		ug/kg	4.6	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	--	1
Bromodichloromethane	ND		ug/kg	1.1	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	--	1
1,1-Dichloropropene	ND		ug/kg	4.6	--	1
Bromoform	ND		ug/kg	4.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	--	1
Benzene	ND		ug/kg	1.1	--	1
Toluene	ND		ug/kg	1.7	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.6	--	1
Bromomethane	ND		ug/kg	2.3	--	1
Vinyl chloride	ND		ug/kg	2.3	--	1
Chloroethane	ND		ug/kg	2.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	--	1
Trichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03 Date Collected: 06/29/17 08:25

Client ID: MARINE 10 C Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	--	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	2.3	--	1
Xylenes, Total	ND		ug/kg	2.3	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	4.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.6	--	1
Styrene	ND		ug/kg	2.3	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	ND		ug/kg	41	--	1
Carbon disulfide	ND		ug/kg	4.6	--	1
Methyl ethyl ketone	ND		ug/kg	11	--	1
Methyl isobutyl ketone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	4.6	--	1
Tetrahydrofuran	ND		ug/kg	4.6	--	1
2,2-Dichloropropane	ND		ug/kg	5.7	--	1
1,2-Dibromoethane	ND		ug/kg	4.6	--	1
1,3-Dichloropropane	ND		ug/kg	4.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	--	1
Bromobenzene	ND		ug/kg	5.7	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	4.6	--	1
o-Chlorotoluene	ND		ug/kg	4.6	--	1
p-Chlorotoluene	ND		ug/kg	4.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	--	1
Hexachlorobutadiene	ND		ug/kg	4.6	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.6	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03 Date Collected: 06/29/17 08:25

Client ID: MARINE 10 C Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	5.7	--	1
Diisopropyl Ether	ND		ug/kg	4.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.6	--	1
1,4-Dioxane	ND		ug/kg	46	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:35
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 16:37
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.86	--	1
1,2-Dichloropropane	ND		ug/kg	3.0	--	1
Dibromochloromethane	ND		ug/kg	0.86	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	ND		ug/kg	0.86	--	1
Chlorobenzene	ND		ug/kg	0.86	--	1
Trichlorofluoromethane	ND		ug/kg	3.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.86	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.86	--	1
Bromodichloromethane	ND		ug/kg	0.86	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.86	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.86	--	1
1,1-Dichloropropene	ND		ug/kg	3.4	--	1
Bromoform	ND		ug/kg	3.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.86	--	1
Benzene	ND		ug/kg	0.86	--	1
Toluene	ND		ug/kg	1.3	--	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	1.7	--	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
Trichloroethene	ND		ug/kg	0.86	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04 Date Collected: 06/29/17 08:35

Client ID: MARINE 10 D Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	--	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	1.7	--	1
Xylenes, Total	ND		ug/kg	1.7	--	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	3.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.4	--	1
Styrene	ND		ug/kg	1.7	--	1
Dichlorodifluoromethane	ND		ug/kg	8.6	--	1
Acetone	73		ug/kg	31	--	1
Carbon disulfide	5.3		ug/kg	3.4	--	1
Methyl ethyl ketone	17		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	3.4	--	1
Tetrahydrofuran	ND		ug/kg	3.4	--	1
2,2-Dichloropropane	ND		ug/kg	4.3	--	1
1,2-Dibromoethane	ND		ug/kg	3.4	--	1
1,3-Dichloropropane	ND		ug/kg	3.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.86	--	1
Bromobenzene	ND		ug/kg	4.3	--	1
n-Butylbenzene	ND		ug/kg	0.86	--	1
sec-Butylbenzene	ND		ug/kg	0.86	--	1
tert-Butylbenzene	ND		ug/kg	3.4	--	1
o-Chlorotoluene	ND		ug/kg	3.4	--	1
p-Chlorotoluene	ND		ug/kg	3.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	--	1
Hexachlorobutadiene	ND		ug/kg	3.4	--	1
Isopropylbenzene	ND		ug/kg	0.86	--	1
p-Isopropyltoluene	1.6		ug/kg	0.86	--	1
Naphthalene	ND		ug/kg	3.4	--	1
n-Propylbenzene	ND		ug/kg	0.86	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04 Date Collected: 06/29/17 08:35

Client ID: MARINE 10 D Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.3	--	1
Diisopropyl Ether	ND		ug/kg	3.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.4	--	1
1,4-Dioxane	ND		ug/kg	34	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Lab Number: L1722222
Project Number: 171521.52
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:45
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 17:03
Analyst: JC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	--	1
1,1-Dichloroethane	ND		ug/kg	1.5	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	3.6	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	--	1
Tetrachloroethene	ND		ug/kg	1.0	--	1
Chlorobenzene	ND		ug/kg	1.0	--	1
Trichlorofluoromethane	ND		ug/kg	4.1	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	--	1
Bromodichloromethane	ND		ug/kg	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--	1
1,1-Dichloropropene	ND		ug/kg	4.1	--	1
Bromoform	ND		ug/kg	4.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Benzene	ND		ug/kg	1.0	--	1
Toluene	ND		ug/kg	1.5	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.1	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	2.1	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1
Trichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05 Date Collected: 06/29/17 08:45

Client ID: MARINE 10 E Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	2.1	--	1
Xylenes, Total	ND		ug/kg	2.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	4.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.1	--	1
Styrene	ND		ug/kg	2.1	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	47		ug/kg	37	--	1
Carbon disulfide	17		ug/kg	4.1	--	1
Methyl ethyl ketone	11		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	4.1	--	1
Tetrahydrofuran	ND		ug/kg	4.1	--	1
2,2-Dichloropropane	ND		ug/kg	5.2	--	1
1,2-Dibromoethane	ND		ug/kg	4.1	--	1
1,3-Dichloropropane	ND		ug/kg	4.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Bromobenzene	ND		ug/kg	5.2	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	4.1	--	1
o-Chlorotoluene	ND		ug/kg	4.1	--	1
p-Chlorotoluene	ND		ug/kg	4.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	--	1
Hexachlorobutadiene	ND		ug/kg	4.1	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.1	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.1	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05 Date Collected: 06/29/17 08:45

Client ID: MARINE 10 E Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	5.2	--	1
Diisopropyl Ether	ND		ug/kg	4.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.1	--	1
1,4-Dioxane	ND		ug/kg	41	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 17:29
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	--	1
1,1-Dichloroethane	ND		ug/kg	1.7	--	1
Chloroform	ND		ug/kg	1.7	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	3.9	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	--	1
Tetrachloroethene	ND		ug/kg	1.1	--	1
Chlorobenzene	ND		ug/kg	1.1	--	1
Trichlorofluoromethane	ND		ug/kg	4.4	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	--	1
Bromodichloromethane	ND		ug/kg	1.1	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	--	1
1,1-Dichloropropene	ND		ug/kg	4.4	--	1
Bromoform	ND		ug/kg	4.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	--	1
Benzene	ND		ug/kg	1.1	--	1
Toluene	ND		ug/kg	1.7	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.4	--	1
Bromomethane	ND		ug/kg	2.2	--	1
Vinyl chloride	ND		ug/kg	2.2	--	1
Chloroethane	ND		ug/kg	2.2	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	--	1
Trichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06 Date Collected: 06/29/17 08:55

Client ID: MARINE 10 F Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.2	--	1
p/m-Xylene	ND		ug/kg	2.2	--	1
o-Xylene	ND		ug/kg	2.2	--	1
Xylenes, Total	ND		ug/kg	2.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	4.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.4	--	1
Styrene	ND		ug/kg	2.2	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	ND		ug/kg	40	--	1
Carbon disulfide	52		ug/kg	4.4	--	1
Methyl ethyl ketone	ND		ug/kg	11	--	1
Methyl isobutyl ketone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	4.4	--	1
Tetrahydrofuran	ND		ug/kg	4.4	--	1
2,2-Dichloropropane	ND		ug/kg	5.6	--	1
1,2-Dibromoethane	ND		ug/kg	4.4	--	1
1,3-Dichloropropane	ND		ug/kg	4.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	--	1
Bromobenzene	ND		ug/kg	5.6	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	4.4	--	1
o-Chlorotoluene	ND		ug/kg	4.4	--	1
p-Chlorotoluene	ND		ug/kg	4.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	--	1
Hexachlorobutadiene	ND		ug/kg	4.4	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.4	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.4	--	1

Project Name: WYNN EVERETT
Lab Number: L1722222
Project Number: 171521.52
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	5.6	--	1
Diisopropyl Ether	ND		ug/kg	4.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.4	--	1
1,4-Dioxane	ND		ug/kg	44	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 17:55
Analyst: JC
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	--	1
1,1-Dichloroethane	ND		ug/kg	1.5	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	0.99	--	1
1,2-Dichloropropane	ND		ug/kg	3.5	--	1
Dibromochloromethane	ND		ug/kg	0.99	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	--	1
Tetrachloroethene	ND		ug/kg	0.99	--	1
Chlorobenzene	ND		ug/kg	0.99	--	1
Trichlorofluoromethane	ND		ug/kg	4.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.99	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	--	1
Bromodichloromethane	ND		ug/kg	0.99	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	--	1
1,1-Dichloropropene	ND		ug/kg	4.0	--	1
Bromoform	ND		ug/kg	4.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	--	1
Benzene	ND		ug/kg	0.99	--	1
Toluene	ND		ug/kg	1.5	--	1
Ethylbenzene	7.1		ug/kg	0.99	--	1
Chloromethane	ND		ug/kg	4.0	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	2.0	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.99	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1
Trichloroethene	ND		ug/kg	0.99	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07 Date Collected: 06/29/17 09:05

Client ID: MARINE 10 G Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	29		ug/kg	2.0	--	1
o-Xylene	18		ug/kg	2.0	--	1
Xylenes, Total	47		ug/kg	2.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	--	1
Dibromomethane	ND		ug/kg	4.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.0	--	1
Styrene	ND		ug/kg	2.0	--	1
Dichlorodifluoromethane	ND		ug/kg	9.9	--	1
Acetone	40		ug/kg	36	--	1
Carbon disulfide	5.1		ug/kg	4.0	--	1
Methyl ethyl ketone	ND		ug/kg	9.9	--	1
Methyl isobutyl ketone	ND		ug/kg	9.9	--	1
2-Hexanone	ND		ug/kg	9.9	--	1
Bromochloromethane	ND		ug/kg	4.0	--	1
Tetrahydrofuran	ND		ug/kg	4.0	--	1
2,2-Dichloropropane	ND		ug/kg	5.0	--	1
1,2-Dibromoethane	ND		ug/kg	4.0	--	1
1,3-Dichloropropane	ND		ug/kg	4.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	--	1
Bromobenzene	ND		ug/kg	5.0	--	1
n-Butylbenzene	ND		ug/kg	0.99	--	1
sec-Butylbenzene	ND		ug/kg	0.99	--	1
tert-Butylbenzene	ND		ug/kg	4.0	--	1
o-Chlorotoluene	ND		ug/kg	4.0	--	1
p-Chlorotoluene	ND		ug/kg	4.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--	1
Hexachlorobutadiene	ND		ug/kg	4.0	--	1
Isopropylbenzene	ND		ug/kg	0.99	--	1
p-Isopropyltoluene	ND		ug/kg	0.99	--	1
Naphthalene	ND		ug/kg	4.0	--	1
n-Propylbenzene	ND		ug/kg	0.99	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--	1

Project Name: WYNN EVERETT
Lab Number: L1722222
Project Number: 171521.52
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	5.0	--	1
Diisopropyl Ether	ND		ug/kg	4.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--	1
1,4-Dioxane	ND		ug/kg	40	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/02/17 18:21
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.86	--	1
1,2-Dichloropropane	ND		ug/kg	3.0	--	1
Dibromochloromethane	ND		ug/kg	0.86	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	ND		ug/kg	0.86	--	1
Chlorobenzene	ND		ug/kg	0.86	--	1
Trichlorofluoromethane	ND		ug/kg	3.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.86	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.86	--	1
Bromodichloromethane	ND		ug/kg	0.86	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.86	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.86	--	1
1,1-Dichloropropene	ND		ug/kg	3.4	--	1
Bromoform	ND		ug/kg	3.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.86	--	1
Benzene	ND		ug/kg	0.86	--	1
Toluene	ND		ug/kg	1.3	--	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	1.7	--	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
Trichloroethene	ND		ug/kg	0.86	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08 Date Collected: 06/29/17 09:15

Client ID: MARINE 10 H Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	1.8		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	1.7	--	1
Xylenes, Total	1.8		ug/kg	1.7	--	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	3.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.4	--	1
Styrene	ND		ug/kg	1.7	--	1
Dichlorodifluoromethane	ND		ug/kg	8.6	--	1
Acetone	170		ug/kg	31	--	1
Carbon disulfide	21		ug/kg	3.4	--	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	3.4	--	1
Tetrahydrofuran	ND		ug/kg	3.4	--	1
2,2-Dichloropropane	ND		ug/kg	4.3	--	1
1,2-Dibromoethane	ND		ug/kg	3.4	--	1
1,3-Dichloropropane	ND		ug/kg	3.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.86	--	1
Bromobenzene	ND		ug/kg	4.3	--	1
n-Butylbenzene	ND		ug/kg	0.86	--	1
sec-Butylbenzene	ND		ug/kg	0.86	--	1
tert-Butylbenzene	ND		ug/kg	3.4	--	1
o-Chlorotoluene	ND		ug/kg	3.4	--	1
p-Chlorotoluene	ND		ug/kg	3.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	--	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
1,2,3-Trichlorobenzene	ND		ug/kg	3.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.4	--	1

Project Name: WYNN EVERETT
Lab Number: L1722222
Project Number: 171521.52
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.3	--	1
Diisopropyl Ether	ND		ug/kg	3.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.4	--	1
1,4-Dioxane	ND		ug/kg	34	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/02/17 10:58
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG1019371-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/02/17 10:58
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG1019371-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/02/17 10:58
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG1019371-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/02/17 10:58
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-08 Batch: WG1019371-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG1019371-3 WG1019371-4								
Methylene chloride	86		88		70-130	2		20
1,1-Dichloroethane	85		88		70-130	3		20
Chloroform	83		85		70-130	2		20
Carbon tetrachloride	86		88		70-130	2		20
1,2-Dichloropropane	88		90		70-130	2		20
Dibromochloromethane	90		94		70-130	4		20
1,1,2-Trichloroethane	94		97		70-130	3		20
Tetrachloroethene	101		102		70-130	1		20
Chlorobenzene	95		97		70-130	2		20
Trichlorofluoromethane	**65**	Q	**66**	Q	70-130	2		20
1,2-Dichloroethane	73		76		70-130	4		20
1,1,1-Trichloroethane	84		86		70-130	2		20
Bromodichloromethane	80		83		70-130	4		20
trans-1,3-Dichloropropene	92		95		70-130	3		20
cis-1,3-Dichloropropene	84		87		70-130	4		20
1,1-Dichloropropene	87		89		70-130	2		20
Bromoform	92		96		70-130	4		20
1,1,2,2-Tetrachloroethane	92		98		70-130	6		20
Benzene	87		90		70-130	3		20
Toluene	97		98		70-130	1		20
Ethylbenzene	95		97		70-130	2		20
Chloromethane	74		74		70-130	0		20
Bromomethane	**59**	Q	**60**	Q	70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG1019371-3 WG1019371-4								
Vinyl chloride	**67**	Q	**67**	Q	70-130	0		20
Chloroethane	**65**	Q	**65**	Q	70-130	0		20
1,1-Dichloroethene	89		90		70-130	1		20
trans-1,2-Dichloroethene	88		90		70-130	2		20
Trichloroethene	87		89		70-130	2		20
1,2-Dichlorobenzene	97		99		70-130	2		20
1,3-Dichlorobenzene	97		101		70-130	4		20
1,4-Dichlorobenzene	97		100		70-130	3		20
Methyl tert butyl ether	84		87		70-130	4		20
p/m-Xylene	96		99		70-130	3		20
o-Xylene	91		94		70-130	3		20
cis-1,2-Dichloroethene	88		91		70-130	3		20
Dibromomethane	81		85		70-130	5		20
1,4-Dichlorobutane	96		100		70-130	4		20
1,2,3-Trichloropropane	89		96		70-130	8		20
Styrene	90		93		70-130	3		20
Dichlorodifluoromethane	**66**	Q	**66**	Q	70-130	0		20
Acetone	82		82		70-130	0		20
Carbon disulfide	70		72		70-130	3		20
Methyl ethyl ketone	85		93		70-130	9		20
Methyl isobutyl ketone	87		93		70-130	7		20
2-Hexanone	81		85		70-130	5		20
Ethyl methacrylate	85		88		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG1019371-3 WG1019371-4								
Acrylonitrile	88		94		70-130	7		20
Bromochloromethane	87		89		70-130	2		20
Tetrahydrofuran	85		86		70-130	1		20
2,2-Dichloropropane	85		87		70-130	2		20
1,2-Dibromoethane	92		96		70-130	4		20
1,3-Dichloropropane	91		96		70-130	5		20
1,1,1,2-Tetrachloroethane	93		97		70-130	4		20
Bromobenzene	98		102		70-130	4		20
n-Butylbenzene	98		100		70-130	2		20
sec-Butylbenzene	100		103		70-130	3		20
tert-Butylbenzene	100		103		70-130	3		20
o-Chlorotoluene	98		101		70-130	3		20
p-Chlorotoluene	98		101		70-130	3		20
1,2-Dibromo-3-chloropropane	91		96		70-130	5		20
Hexachlorobutadiene	103		106		70-130	3		20
Isopropylbenzene	99		103		70-130	4		20
p-Isopropyltoluene	100		104		70-130	4		20
Naphthalene	93		98		70-130	5		20
n-Propylbenzene	99		101		70-130	2		20
1,2,3-Trichlorobenzene	98		101		70-130	3		20
1,2,4-Trichlorobenzene	101		102		70-130	1		20
1,3,5-Trimethylbenzene	100		103		70-130	3		20
1,2,4-Trimethylbenzene	101		104		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-08 Batch: WG1019371-3 WG1019371-4								
trans-1,4-Dichloro-2-butene	90		93		70-130	3		20
Diethyl ether	91		94		70-130	3		20
Diisopropyl Ether	88		89		70-130	1		20
Ethyl-Tert-Butyl-Ether	87		90		70-130	3		20
Tertiary-Amyl Methyl Ether	87		90		70-130	3		20
1,4-Dioxane	84		87		70-130	4		20
2-Chloroethylvinyl ether	107		103		70-130	4		20
Halothane	92		96		70-130	4		20
Ethyl Acetate	81		85		70-130	5		20
Freon-113	91		94		70-130	3		20
Vinyl acetate	82		84		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		88		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	94		96		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/01/17 01:03
Analyst: KV
Percent Solids: 93%

Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	260		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	1200		ug/kg	180	--	1
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	230		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	2600		ug/kg	110	--	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	280		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	160	--	1
Bis(2-ethylhexyl)phthalate	18000	E	ug/kg	180	--	1
Butyl benzyl phthalate	760		ug/kg	180	--	1
Di-n-butylphthalate	ND		ug/kg	180	--	1
Di-n-octylphthalate	1200		ug/kg	180	--	1
Diethyl phthalate	ND		ug/kg	180	--	1
Dimethyl phthalate	ND		ug/kg	180	--	1
Benzo(a)anthracene	1000		ug/kg	110	--	1
Benzo(a)pyrene	830		ug/kg	140	--	1
Benzo(b)fluoranthene	1100		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01 Date Collected: 06/29/17 08:05

Client ID: MARINE 10 A Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	410		ug/kg	110	--	1
Chrysene	980		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	540		ug/kg	110	--	1
Benzo(ghi)perylene	550		ug/kg	140	--	1
Fluorene	280		ug/kg	180	--	1
Phenanthrene	1900		ug/kg	110	--	1
Dibenzo(a,h)anthracene	140		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	560		ug/kg	140	--	1
Pyrene	2200		ug/kg	110	--	1
Aniline	ND		ug/kg	210	--	1
4-Chloroaniline	ND		ug/kg	180	--	1
Dibenzofuran	190		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	210	--	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	380	--	1
4-Nitrophenol	ND		ug/kg	250	--	1
2,4-Dinitrophenol	ND		ug/kg	850	--	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	260	--	1
2,4,5-Trichlorophenol	ND		ug/kg	180	--	1
Pyridine	ND		ug/kg	190	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		30-130
Phenol-d6	53		30-130
Nitrobenzene-d5	61		30-130
2-Fluorobiphenyl	67		30-130
2,4,6-Tribromophenol	92		30-130
4-Terphenyl-d14	60		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01 D
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/05/17 11:42
Analyst: ALS
Percent Solids: 93%

Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Bis(2-ethylhexyl)phthalate	25000		ug/kg	710	--	4

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/01/17 01:29
Analyst: KV
Percent Solids: 90%

Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	320		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	180		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	3700		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	250		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	160	--	1
Bis(2-ethylhexyl)phthalate	6500		ug/kg	180	--	1
Butyl benzyl phthalate	ND		ug/kg	180	--	1
Di-n-butylphthalate	ND		ug/kg	180	--	1
Di-n-octylphthalate	470		ug/kg	180	--	1
Diethyl phthalate	ND		ug/kg	180	--	1
Dimethyl phthalate	ND		ug/kg	180	--	1
Benzo(a)anthracene	1400		ug/kg	110	--	1
Benzo(a)pyrene	1200		ug/kg	140	--	1
Benzo(b)fluoranthene	1600		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02 Date Collected: 06/29/17 08:15

Client ID: MARINE 10 B Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	510		ug/kg	110	--	1
Chrysene	1400		ug/kg	110	--	1
Acenaphthylene	160		ug/kg	140	--	1
Anthracene	850		ug/kg	110	--	1
Benzo(ghi)perylene	740		ug/kg	140	--	1
Fluorene	420		ug/kg	180	--	1
Phenanthrene	2500		ug/kg	110	--	1
Dibenzo(a,h)anthracene	200		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	790		ug/kg	140	--	1
Pyrene	2800		ug/kg	110	--	1
Aniline	ND		ug/kg	220	--	1
4-Chloroaniline	ND		ug/kg	180	--	1
Dibenzofuran	280		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		30-130
Phenol-d6	68		30-130
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	74		30-130
2,4,6-Tribromophenol	107		30-130
4-Terphenyl-d14	65		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/01/17 01:54
Analyst: KV
Percent Solids: 84%

Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	1200		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	7400		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	400		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	3900		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	2400		ug/kg	120	--	1
Benzo(a)pyrene	2000		ug/kg	160	--	1
Benzo(b)fluoranthene	2700		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03 Date Collected: 06/29/17 08:25

Client ID: MARINE 10 C Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	940		ug/kg	120	--	1
Chrysene	2500		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	1400		ug/kg	120	--	1
Benzo(ghi)perylene	1400		ug/kg	160	--	1
Fluorene	840		ug/kg	190	--	1
Phenanthrene	6500		ug/kg	120	--	1
Dibenzo(a,h)anthracene	330		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	160	--	1
Pyrene	5800		ug/kg	120	--	1
Aniline	ND		ug/kg	230	--	1
4-Chloroaniline	ND		ug/kg	190	--	1
Dibenzofuran	570		ug/kg	190	--	1
2-Methylnaphthalene	280		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		30-130
Phenol-d6	52		30-130
Nitrobenzene-d5	62		30-130
2-Fluorobiphenyl	57		30-130
2,4,6-Tribromophenol	86		30-130
4-Terphenyl-d14	47		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/01/17 02:20
Analyst: KV
Percent Solids: 82%

Date Collected: 06/29/17 08:35
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	220		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	2100		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	2600		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	780		ug/kg	120	--	1
Benzo(a)pyrene	620		ug/kg	160	--	1
Benzo(b)fluoranthene	840		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04 Date Collected: 06/29/17 08:35

Client ID: MARINE 10 D Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	280		ug/kg	120	--	1
Chrysene	800		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	400		ug/kg	120	--	1
Benzo(ghi)perylene	360		ug/kg	160	--	1
Fluorene	210		ug/kg	200	--	1
Phenanthrene	1600		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	400		ug/kg	160	--	1
Pyrene	1600		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	970	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		30-130
Phenol-d6	48		30-130
Nitrobenzene-d5	57		30-130
2-Fluorobiphenyl	58		30-130
2,4,6-Tribromophenol	83		30-130
4-Terphenyl-d14	51		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/01/17 02:45
Analyst: KV
Percent Solids: 74%

Date Collected: 06/29/17 08:45
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	530		ug/kg	180	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	5200		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	230		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	250		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	1800		ug/kg	130	--	1
Benzo(a)pyrene	1300		ug/kg	180	--	1
Benzo(b)fluoranthene	1600		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05 Date Collected: 06/29/17 08:45

Client ID: MARINE 10 E Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	560		ug/kg	130	--	1
Chrysene	1500		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	2100		ug/kg	130	--	1
Benzo(ghi)perylene	700		ug/kg	180	--	1
Fluorene	1000		ug/kg	220	--	1
Phenanthrene	6000		ug/kg	130	--	1
Dibenzo(a,h)anthracene	200		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	780		ug/kg	180	--	1
Pyrene	4000		ug/kg	130	--	1
Aniline	ND		ug/kg	270	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	660		ug/kg	220	--	1
2-Methylnaphthalene	310		ug/kg	270	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	480	--	1
4-Nitrophenol	ND		ug/kg	310	--	1
2,4-Dinitrophenol	ND		ug/kg	1100	--	1
Pentachlorophenol	ND		ug/kg	440	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**28**	Q	30-130
Phenol-d6	35		30-130
Nitrobenzene-d5	40		30-130
2-Fluorobiphenyl	43		30-130
2,4,6-Tribromophenol	75		30-130
4-Terphenyl-d14	43		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/06/17 12:56
Analyst: KV
Percent Solids: 83%

Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:32

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	180	--	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	1800		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	180	--	1
Naphthalene	ND		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	350		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	860		ug/kg	120	--	1
Benzo(a)pyrene	670		ug/kg	160	--	1
Benzo(b)fluoranthene	960		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06 Date Collected: 06/29/17 08:55

Client ID: MARINE 10 F Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	300		ug/kg	120	--	1
Chrysene	900		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	320		ug/kg	120	--	1
Benzo(ghi)perylene	430		ug/kg	160	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	1500		ug/kg	120	--	1
Dibenzo(a,h)anthracene	120		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	460		ug/kg	160	--	1
Pyrene	1300		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	180	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**21**	Q	30-130
Phenol-d6	37		30-130
Nitrobenzene-d5	32		30-130
2-Fluorobiphenyl	47		30-130
2,4,6-Tribromophenol	76		30-130
4-Terphenyl-d14	52		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/01/17 03:36
Analyst: KV
Percent Solids: 77%

Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	210	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	--	1
2,4-Dinitrotoluene	ND		ug/kg	210	--	1
2,6-Dinitrotoluene	ND		ug/kg	210	--	1
Azobenzene	ND		ug/kg	210	--	1
Fluoranthene	570		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	210	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	--	1
Butyl benzyl phthalate	ND		ug/kg	210	--	1
Di-n-butylphthalate	ND		ug/kg	210	--	1
Di-n-octylphthalate	ND		ug/kg	210	--	1
Diethyl phthalate	ND		ug/kg	210	--	1
Dimethyl phthalate	ND		ug/kg	210	--	1
Benzo(a)anthracene	200		ug/kg	130	--	1
Benzo(a)pyrene	ND		ug/kg	170	--	1
Benzo(b)fluoranthene	220		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07 Date Collected: 06/29/17 09:05

Client ID: MARINE 10 G Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	220		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	210	--	1
Phenanthrene	510		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	--	1
Pyrene	510		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	210	--	1
Dibenzofuran	ND		ug/kg	210	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	210	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	210	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	210	--	1
2-Nitrophenol	ND		ug/kg	460	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	420	--	1
Phenol	ND		ug/kg	210	--	1
2-Methylphenol	ND		ug/kg	210	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	--	1
2,4,5-Trichlorophenol	ND		ug/kg	210	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		30-130
Phenol-d6	50		30-130
Nitrobenzene-d5	57		30-130
2-Fluorobiphenyl	52		30-130
2,4,6-Tribromophenol	76		30-130
4-Terphenyl-d14	45		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/01/17 04:01
Analyst: KV
Percent Solids: 85%

Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	950		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	6900		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	400		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	760		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	2400		ug/kg	120	--	1
Benzo(a)pyrene	2000		ug/kg	150	--	1
Benzo(b)fluoranthene	2700		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1722222

Project Number: 171521.52 **Report Date:** 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08 Date Collected: 06/29/17 09:15

Client ID: MARINE 10 H Date Received: 06/29/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	800		ug/kg	120	--	1
Chrysene	2500		ug/kg	120	--	1
Acenaphthylene	150		ug/kg	150	--	1
Anthracene	1600		ug/kg	120	--	1
Benzo(ghi)perylene	1200		ug/kg	150	--	1
Fluorene	1000		ug/kg	190	--	1
Phenanthrene	5900		ug/kg	120	--	1
Dibenzo(a,h)anthracene	340		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	1300		ug/kg	150	--	1
Pyrene	5500		ug/kg	120	--	1
Aniline	ND		ug/kg	230	--	1
4-Chloroaniline	ND		ug/kg	190	--	1
Dibenzofuran	580		ug/kg	190	--	1
2-Methylnaphthalene	440		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	410	--	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		30-130
Phenol-d6	48		30-130
Nitrobenzene-d5	54		30-130
2-Fluorobiphenyl	51		30-130
2,4,6-Tribromophenol	79		30-130
4-Terphenyl-d14	41		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/30/17 20:20
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1018786-1					
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: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/30/17 20:20
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1018786-1					
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	780	--
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: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 06/30/17 20:20
Analyst: KV

Extraction Method: EPA 3546
Extraction Date: 06/30/17 10:30

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1018786-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		30-130
Phenol-d6	72		30-130
Nitrobenzene-d5	79		30-130
2-Fluorobiphenyl	83		30-130
2,4,6-Tribromophenol	105		30-130
4-Terphenyl-d14	84		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1018786-2 WG1018786-3								
Acenaphthene	78		78		40-140	0		30
1,2,4-Trichlorobenzene	73		70		40-140	4		30
Hexachlorobenzene	90		90		40-140	0		30
Bis(2-chloroethyl)ether	59		57		40-140	3		30
2-Chloronaphthalene	77		77		40-140	0		30
1,2-Dichlorobenzene	69		64		40-140	8		30
1,3-Dichlorobenzene	66		62		40-140	6		30
1,4-Dichlorobenzene	68		64		40-140	6		30
3,3'-Dichlorobenzidine	51		50		40-140	2		30
2,4-Dinitrotoluene	91		92		40-140	1		30
2,6-Dinitrotoluene	96		95		40-140	1		30
Azobenzene	78		80		40-140	3		30
Fluoranthene	74		76		40-140	3		30
4-Bromophenyl phenyl ether	85		85		40-140	0		30
Bis(2-chloroisopropyl)ether	50		47		40-140	6		30
Bis(2-chloroethoxy)methane	65		63		40-140	3		30
Hexachlorobutadiene	81		80		40-140	1		30
Hexachloroethane	72		70		40-140	3		30
Isophorone	70		67		40-140	4		30
Naphthalene	71		68		40-140	4		30
Nitrobenzene	75		72		40-140	4		30
Bis(2-ethylhexyl)phthalate	77		78		40-140	1		30
Butyl benzyl phthalate	82		85		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1018786-2 WG1018786-3								
Di-n-butylphthalate	80		82		40-140	2		30
Di-n-octylphthalate	76		76		40-140	0		30
Diethyl phthalate	90		92		40-140	2		30
Dimethyl phthalate	86		86		40-140	0		30
Benzo(a)anthracene	68		69		40-140	1		30
Benzo(a)pyrene	77		73		40-140	5		30
Benzo(b)fluoranthene	74		72		40-140	3		30
Benzo(k)fluoranthene	74		72		40-140	3		30
Chrysene	68		67		40-140	1		30
Acenaphthylene	79		78		40-140	1		30
Anthracene	74		73		40-140	1		30
Benzo(ghi)perylene	67		65		40-140	3		30
Fluorene	82		82		40-140	0		30
Phenanthrene	72		72		40-140	0		30
Dibenzo(a,h)anthracene	67		66		40-140	2		30
Indeno(1,2,3-cd)pyrene	69		66		40-140	4		30
Pyrene	75		76		40-140	1		30
Aniline	46		43		40-140	7		30
4-Chloroaniline	47		41		40-140	14		30
Dibenzofuran	81		81		40-140	0		30
2-Methylnaphthalene	74		73		40-140	1		30
Acetophenone	76		72		40-140	5		30
2,4,6-Trichlorophenol	83		81		30-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1018786-2 WG1018786-3								
2-Chlorophenol	72		69		30-130	4		30
2,4-Dichlorophenol	79		78		30-130	1		30
2,4-Dimethylphenol	87		85		30-130	2		30
2-Nitrophenol	86		80		30-130	7		30
4-Nitrophenol	103		106		30-130	3		30
2,4-Dinitrophenol	59		61		30-130	3		30
Pentachlorophenol	56		58		30-130	4		30
Phenol	64		62		30-130	3		30
2-Methylphenol	74		71		30-130	4		30
3-Methylphenol/4-Methylphenol	71		71		30-130	0		30
2,4,5-Trichlorophenol	84		86		30-130	2		30
Pyridine	54		49		30-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		61		30-130
Phenol-d6	68		64		30-130
Nitrobenzene-d5	77		71		30-130
2-Fluorobiphenyl	77		77		30-130
2,4,6-Tribromophenol	98		100		30-130
4-Terphenyl-d14	76		76		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/01/17 23:46
Analyst: DG
Percent Solids: 93%

Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	435000		ug/kg	35800	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	71		40-140

Project Name: WYNN EVERETT
Lab Number: L1722222
Project Number: 171521.52
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02 D
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/05/17 16:53
Analyst: DG
Percent Solids: 90%

Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	702000		ug/kg	70200	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/02/17 00:51
Analyst: DG
Percent Solids: 84%

Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	334000		ug/kg	38300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/02/17 01:23
Analyst: DG
Percent Solids: 82%

Date Collected: 06/29/17 08:35
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	112000		ug/kg	39200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	46		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/02/17 00:51
Analyst: DG
Percent Solids: 74%

Date Collected: 06/29/17 08:45
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	43700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	58		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/02/17 00:18
Analyst: DG
Percent Solids: 83%

Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	76900		ug/kg	38000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/01/17 23:46
Analyst: DG
Percent Solids: 77%

Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	42200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	45		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/01/17 22:41
Analyst: DG
Percent Solids: 85%

Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	184000		ug/kg	37900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	49		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 07/01/17 19:25
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 06/29/17 11:23

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-08 Batch: WG1018369-1					
TPH	ND		ug/kg	31500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-08 Batch: WG1018369-2								
TPH	110		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	89				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/30/17 20:05
Analyst: JW
Percent Solids: 93%

Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.5	--	1	A
Aroclor 1221	ND		ug/kg	34.5	--	1	A
Aroclor 1232	ND		ug/kg	34.5	--	1	A
Aroclor 1242	ND		ug/kg	34.5	--	1	A
Aroclor 1248	ND		ug/kg	34.5	--	1	A
Aroclor 1254	97.3		ug/kg	34.5	--	1	A
Aroclor 1260	112		ug/kg	34.5	--	1	A
Aroclor 1262	ND		ug/kg	34.5	--	1	A
Aroclor 1268	53.7		ug/kg	34.5	--	1	B
PCBs, Total	263		ug/kg	34.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02 D
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 07/06/17 11:40
Analyst: HT
Percent Solids: 90%

Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	72.2	--	2	A
Aroclor 1221	ND		ug/kg	72.2	--	2	A
Aroclor 1232	ND		ug/kg	72.2	--	2	A
Aroclor 1242	ND		ug/kg	72.2	--	2	A
Aroclor 1248	ND		ug/kg	72.2	--	2	A
Aroclor 1254	135		ug/kg	72.2	--	2	A
Aroclor 1260	99.2		ug/kg	72.2	--	2	B
Aroclor 1262	ND		ug/kg	72.2	--	2	A
Aroclor 1268	218		ug/kg	72.2	--	2	B
PCBs, Total	452		ug/kg	72.2	--	2	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	32		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/30/17 20:30
Analyst: JW
Percent Solids: 84%

Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	--	1	A
Aroclor 1221	ND		ug/kg	37.6	--	1	A
Aroclor 1232	ND		ug/kg	37.6	--	1	A
Aroclor 1242	ND		ug/kg	37.6	--	1	A
Aroclor 1248	ND		ug/kg	37.6	--	1	A
Aroclor 1254	106		ug/kg	37.6	--	1	A
Aroclor 1260	41.7		ug/kg	37.6	--	1	A
Aroclor 1262	ND		ug/kg	37.6	--	1	A
Aroclor 1268	ND		ug/kg	37.6	--	1	A
PCBs, Total	148		ug/kg	37.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	31		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	30		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/30/17 20:43
Analyst: JW
Percent Solids: 82%

Date Collected: 06/29/17 08:35
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.9	--	1	A
Aroclor 1221	ND		ug/kg	38.9	--	1	A
Aroclor 1232	ND		ug/kg	38.9	--	1	A
Aroclor 1242	ND		ug/kg	38.9	--	1	A
Aroclor 1248	ND		ug/kg	38.9	--	1	A
Aroclor 1254	137		ug/kg	38.9	--	1	A
Aroclor 1260	52.0		ug/kg	38.9	--	1	B
Aroclor 1262	ND		ug/kg	38.9	--	1	A
Aroclor 1268	ND		ug/kg	38.9	--	1	A
PCBs, Total	189		ug/kg	38.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	32		30-150	B
Decachlorobiphenyl	37		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 07/06/17 10:09
Analyst: HT
Percent Solids: 74%

Date Collected: 06/29/17 08:45
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/06/17 01:10
Cleanup Method: EPA 3665A
Cleanup Date: 07/06/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/06/17

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	229		ug/kg	44.5	--	1	A
Aroclor 1260	58.3		ug/kg	44.5	--	1	B
Aroclor 1262	ND		ug/kg	44.5	--	1	A
Aroclor 1268	ND		ug/kg	44.5	--	1	A
PCBs, Total	287		ug/kg	44.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/30/17 21:07
Analyst: JW
Percent Solids: 83%

Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.5	--	1	A
Aroclor 1221	ND		ug/kg	39.5	--	1	A
Aroclor 1232	ND		ug/kg	39.5	--	1	A
Aroclor 1242	ND		ug/kg	39.5	--	1	A
Aroclor 1248	ND		ug/kg	39.5	--	1	A
Aroclor 1254	85.8		ug/kg	39.5	--	1	A
Aroclor 1260	100		ug/kg	39.5	--	1	A
Aroclor 1262	ND		ug/kg	39.5	--	1	A
Aroclor 1268	68.8		ug/kg	39.5	--	1	B
PCBs, Total	255		ug/kg	39.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**29**	Q	30-150	B
Decachlorobiphenyl	31		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/30/17 21:20
Analyst: JW
Percent Solids: 77%

Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:37
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.8	--	1	A
Aroclor 1221	ND		ug/kg	42.8	--	1	A
Aroclor 1232	ND		ug/kg	42.8	--	1	A
Aroclor 1242	ND		ug/kg	42.8	--	1	A
Aroclor 1248	ND		ug/kg	42.8	--	1	A
Aroclor 1254	72.2		ug/kg	42.8	--	1	A
Aroclor 1260	ND		ug/kg	42.8	--	1	B
Aroclor 1262	ND		ug/kg	42.8	--	1	A
Aroclor 1268	ND		ug/kg	42.8	--	1	A
PCBs, Total	72.2		ug/kg	42.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	33		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 06/30/17 21:32
Analyst: JW
Percent Solids: 85%

Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:37
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	--	1	A
Aroclor 1221	ND		ug/kg	37.8	--	1	A
Aroclor 1232	ND		ug/kg	37.8	--	1	A
Aroclor 1242	ND		ug/kg	37.8	--	1	A
Aroclor 1248	ND		ug/kg	37.8	--	1	A
Aroclor 1254	215		ug/kg	37.8	--	1	A
Aroclor 1260	73.6		ug/kg	37.8	--	1	B
Aroclor 1262	ND		ug/kg	37.8	--	1	A
Aroclor 1268	ND		ug/kg	37.8	--	1	A
PCBs, Total	289		ug/kg	37.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	37		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 07/05/17 15:39
Analyst: AF

Extraction Method: EPA 3546
Extraction Date: 06/30/17 00:24
Cleanup Method: EPA 3665A
Cleanup Date: 06/30/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-04,06-08 Batch: WG1018627-1						
Aroclor 1016	ND		ug/kg	31.6	--	A
Aroclor 1221	ND		ug/kg	31.6	--	A
Aroclor 1232	ND		ug/kg	31.6	--	A
Aroclor 1242	ND		ug/kg	31.6	--	A
Aroclor 1248	ND		ug/kg	31.6	--	A
Aroclor 1254	ND		ug/kg	31.6	--	A
Aroclor 1260	ND		ug/kg	31.6	--	A
Aroclor 1262	ND		ug/kg	31.6	--	A
Aroclor 1268	ND		ug/kg	31.6	--	A
PCBs, Total	ND		ug/kg	31.6	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 07/06/17 10:10
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 07/05/17 18:58
Cleanup Method: EPA 3665A
Cleanup Date: 07/06/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/06/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 05 Batch: WG1019872-1						
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	67		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	75		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-04,06-08 Batch: WG1018627-2 WG1018627-3									
Aroclor 1016	80		79		40-140	1		30	A
Aroclor 1260	91		88		40-140	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		79		30-150	A
Decachlorobiphenyl	84		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		74		30-150	B
Decachlorobiphenyl	84		86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 05 Batch: WG1019872-2 WG1019872-3									
Aroclor 1016	67		64		40-140	5		30	A
Aroclor 1260	71		68		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		69		30-150	A
Decachlorobiphenyl	73		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		59		30-150	B
Decachlorobiphenyl	73		70		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 16:25
Analyst: KEG
Percent Solids: 93%

Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.50	--	1	A
Lindane	ND		ug/kg	2.83	--	1	A
Alpha-BHC	ND		ug/kg	3.54	--	1	A
Beta-BHC	ND		ug/kg	8.50	--	1	A
Heptachlor	ND		ug/kg	4.25	--	1	A
Aldrin	ND		ug/kg	8.50	--	1	A
Heptachlor epoxide	ND		ug/kg	15.9	--	1	A
Endrin	ND		ug/kg	3.54	--	1	A
Endrin ketone	ND		ug/kg	8.50	--	1	A
Dieldrin	ND		ug/kg	5.31	--	1	A
4,4'-DDE	ND		ug/kg	8.50	--	1	A
4,4'-DDD	ND		ug/kg	8.50	--	1	A
4,4'-DDT	ND		ug/kg	15.9	--	1	B
Endosulfan I	ND		ug/kg	8.50	--	1	A
Endosulfan II	ND		ug/kg	8.50	--	1	A
Endosulfan sulfate	ND		ug/kg	3.54	--	1	A
Methoxychlor	ND		ug/kg	15.9	--	1	A
Chlordane	ND		ug/kg	69.1	--	1	A
Hexachlorobenzene	ND		ug/kg	8.50	--	1	A
Toxaphene	ND		ug/kg	159	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01 D
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 19:56
Analyst: SL
Percent Solids: 93%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	35000	--	10	A
MCPA	ND		ug/kg	35000	--	10	A
Dalapon	ND		ug/kg	350	--	10	A
Dicamba	ND	PI	ug/kg	350	--	10	A
Dichloroprop	ND		ug/kg	350	--	10	A
2,4-D	ND		ug/kg	350	--	10	A
2,4-DB	ND		ug/kg	350	--	10	A
2,4,5-T	ND		ug/kg	350	--	10	B
2,4,5-TP (Silvex)	ND		ug/kg	350	--	10	A
Dinoseb	ND		ug/kg	350	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**154**	Q	30-150	A
DCAA	148		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 16:42
Analyst: KEG
Percent Solids: 90%

Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.37	--	1	A
Lindane	ND		ug/kg	2.79	--	1	A
Alpha-BHC	ND		ug/kg	3.49	--	1	A
Beta-BHC	ND		ug/kg	8.37	--	1	A
Heptachlor	ND		ug/kg	4.19	--	1	A
Aldrin	ND		ug/kg	8.37	--	1	A
Heptachlor epoxide	ND		ug/kg	15.7	--	1	A
Endrin	ND		ug/kg	3.49	--	1	A
Endrin ketone	ND		ug/kg	8.37	--	1	A
Dieldrin	7.26	P	ug/kg	5.23	--	1	A
4,4'-DDE	ND		ug/kg	8.37	--	1	A
4,4'-DDD	ND		ug/kg	8.37	--	1	A
4,4'-DDT	ND	PI	ug/kg	15.7	--	1	A
Endosulfan I	ND		ug/kg	8.37	--	1	A
Endosulfan II	ND	PI	ug/kg	8.37	--	1	A
Endosulfan sulfate	ND		ug/kg	3.49	--	1	A
Methoxychlor	ND		ug/kg	15.7	--	1	A
Chlordane	ND		ug/kg	68.0	--	1	A
Hexachlorobenzene	ND		ug/kg	8.37	--	1	A
Toxaphene	ND		ug/kg	157	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02 D
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 20:15
Analyst: SL
Percent Solids: 90%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	36000	--	10	A
MCPA	ND		ug/kg	36000	--	10	A
Dalapon	ND		ug/kg	360	--	10	A
Dicamba	ND	PI	ug/kg	360	--	10	A
Dichloroprop	ND		ug/kg	360	--	10	A
2,4-D	ND		ug/kg	360	--	10	A
2,4-DB	ND		ug/kg	360	--	10	A
2,4,5-T	ND		ug/kg	360	--	10	A
2,4,5-TP (Silvex)	ND		ug/kg	360	--	10	A
Dinoseb	ND		ug/kg	360	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**216**	Q	30-150	A
DCAA	**261**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 16:59
Analyst: KEG
Percent Solids: 84%

Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.11	--	1	A
Lindane	ND		ug/kg	3.04	--	1	A
Alpha-BHC	ND		ug/kg	3.80	--	1	A
Beta-BHC	ND		ug/kg	9.11	--	1	A
Heptachlor	ND		ug/kg	4.55	--	1	A
Aldrin	ND		ug/kg	9.11	--	1	A
Heptachlor epoxide	ND		ug/kg	17.1	--	1	B
Endrin	ND		ug/kg	3.80	--	1	A
Endrin ketone	ND		ug/kg	9.11	--	1	A
Dieldrin	ND		ug/kg	5.69	--	1	A
4,4'-DDE	ND		ug/kg	9.11	--	1	A
4,4'-DDD	ND		ug/kg	9.11	--	1	A
4,4'-DDT	ND		ug/kg	17.1	--	1	B
Endosulfan I	ND		ug/kg	9.11	--	1	A
Endosulfan II	ND		ug/kg	9.11	--	1	B
Endosulfan sulfate	ND		ug/kg	3.80	--	1	A
Methoxychlor	ND		ug/kg	17.1	--	1	A
Chlordane	ND		ug/kg	74.0	--	1	A
Hexachlorobenzene	ND		ug/kg	9.11	--	1	B
Toxaphene	ND		ug/kg	171	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03 D
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 20:55
Analyst: SL
Percent Solids: 84%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	39000	--	10	A
MCPA	ND		ug/kg	39000	--	10	A
Dalapon	ND		ug/kg	390	--	10	A
Dicamba	ND		ug/kg	390	--	10	A
Dichloroprop	ND		ug/kg	390	--	10	A
2,4-D	ND		ug/kg	390	--	10	A
2,4-DB	ND		ug/kg	390	--	10	A
2,4,5-T	ND		ug/kg	390	--	10	A
2,4,5-TP (Silvex)	ND		ug/kg	390	--	10	A
Dinoseb	ND		ug/kg	390	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**2130**	Q	30-150	A
DCAA	**274**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 17:16
Analyst: KEG
Percent Solids: 82%

Date Collected: 06/29/17 08:35
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.30	--	1	A
Lindane	ND		ug/kg	3.10	--	1	A
Alpha-BHC	ND		ug/kg	3.87	--	1	A
Beta-BHC	ND		ug/kg	9.30	--	1	A
Heptachlor	ND		ug/kg	4.65	--	1	A
Aldrin	ND		ug/kg	9.30	--	1	A
Heptachlor epoxide	ND		ug/kg	17.4	--	1	A
Endrin	ND		ug/kg	3.87	--	1	A
Endrin ketone	ND		ug/kg	9.30	--	1	A
Dieldrin	ND	PI	ug/kg	5.81	--	1	B
4,4'-DDE	ND		ug/kg	9.30	--	1	A
4,4'-DDD	ND		ug/kg	9.30	--	1	A
4,4'-DDT	ND		ug/kg	17.4	--	1	A
Endosulfan I	ND		ug/kg	9.30	--	1	A
Endosulfan II	ND	PI	ug/kg	9.30	--	1	A
Endosulfan sulfate	ND		ug/kg	3.87	--	1	A
Methoxychlor	ND		ug/kg	17.4	--	1	A
Chlordane	ND		ug/kg	75.5	--	1	A
Hexachlorobenzene	ND		ug/kg	9.30	--	1	B
Toxaphene	ND		ug/kg	174	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	73		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04 D
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 21:14
Analyst: SL
Percent Solids: 82%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 08:35
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	40000	--	10	A
MCPA	ND		ug/kg	40000	--	10	A
Dalapon	ND		ug/kg	400	--	10	A
Dicamba	ND		ug/kg	400	--	10	A
Dichloroprop	ND		ug/kg	400	--	10	A
2,4-D	ND		ug/kg	400	--	10	A
2,4-DB	ND		ug/kg	400	--	10	A
2,4,5-T	ND		ug/kg	400	--	10	A
2,4,5-TP (Silvex)	ND		ug/kg	400	--	10	A
Dinoseb	ND		ug/kg	400	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**906**	Q	30-150	A
DCAA	**359**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 17:33
Analyst: KEG
Percent Solids: 74%

Date Collected: 06/29/17 08:45
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.5	--	1	A
Lindane	ND		ug/kg	3.50	--	1	A
Alpha-BHC	ND		ug/kg	4.37	--	1	A
Beta-BHC	ND		ug/kg	10.5	--	1	A
Heptachlor	ND		ug/kg	5.24	--	1	A
Aldrin	ND		ug/kg	10.5	--	1	A
Heptachlor epoxide	ND		ug/kg	19.7	--	1	A
Endrin	ND		ug/kg	4.37	--	1	A
Endrin ketone	ND		ug/kg	10.5	--	1	A
Dieldrin	ND		ug/kg	6.55	--	1	A
4,4'-DDE	ND		ug/kg	10.5	--	1	A
4,4'-DDD	ND		ug/kg	10.5	--	1	B
4,4'-DDT	ND		ug/kg	19.7	--	1	B
Endosulfan I	ND		ug/kg	10.5	--	1	A
Endosulfan II	ND		ug/kg	10.5	--	1	A
Endosulfan sulfate	ND		ug/kg	4.37	--	1	A
Methoxychlor	ND		ug/kg	19.7	--	1	A
Chlordane	ND		ug/kg	85.2	--	1	A
Hexachlorobenzene	ND		ug/kg	10.5	--	1	B
Toxaphene	ND		ug/kg	197	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05 D
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 21:34
Analyst: SL
Percent Solids: 74%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 08:45
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	44000	--	10	A
MCPA	ND		ug/kg	44000	--	10	A
Dalapon	ND		ug/kg	440	--	10	A
Dicamba	ND		ug/kg	440	--	10	A
Dichloroprop	ND		ug/kg	440	--	10	A
2,4-D	ND		ug/kg	440	--	10	A
2,4-DB	ND		ug/kg	440	--	10	A
2,4,5-T	ND		ug/kg	440	--	10	A
2,4,5-TP (Silvex)	ND		ug/kg	440	--	10	A
Dinoseb	ND		ug/kg	440	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**2060**	Q	30-150	A
DCAA	**290**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 17:50
Analyst: KEG
Percent Solids: 83%

Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.30	--	1	A
Lindane	ND		ug/kg	3.10	--	1	A
Alpha-BHC	ND		ug/kg	3.88	--	1	A
Beta-BHC	ND		ug/kg	9.30	--	1	A
Heptachlor	ND		ug/kg	4.65	--	1	A
Aldrin	ND		ug/kg	9.30	--	1	A
Heptachlor epoxide	ND		ug/kg	17.4	--	1	A
Endrin	ND		ug/kg	3.88	--	1	A
Endrin ketone	ND		ug/kg	9.30	--	1	A
Dieldrin	ND		ug/kg	5.81	--	1	A
4,4'-DDE	ND		ug/kg	9.30	--	1	A
4,4'-DDD	ND		ug/kg	9.30	--	1	A
4,4'-DDT	ND		ug/kg	17.4	--	1	A
Endosulfan I	ND		ug/kg	9.30	--	1	A
Endosulfan II	ND		ug/kg	9.30	--	1	B
Endosulfan sulfate	ND		ug/kg	3.88	--	1	A
Methoxychlor	ND		ug/kg	17.4	--	1	A
Chlordane	ND		ug/kg	75.6	--	1	A
Hexachlorobenzene	ND		ug/kg	9.30	--	1	B
Toxaphene	ND		ug/kg	174	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06 D
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 21:53
Analyst: SL
Percent Solids: 83%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	40000	--	10	A
MCPA	ND		ug/kg	40000	--	10	A
Dalapon	ND		ug/kg	400	--	10	A
Dicamba	ND		ug/kg	400	--	10	A
Dichloroprop	ND		ug/kg	400	--	10	A
2,4-D	ND		ug/kg	400	--	10	A
2,4-DB	ND		ug/kg	400	--	10	A
2,4,5-T	ND		ug/kg	400	--	10	A
2,4,5-TP (Silvex)	ND		ug/kg	400	--	10	A
Dinoseb	ND		ug/kg	400	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**1140**	Q	30-150	A
DCAA	**506**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 18:06
Analyst: KEG
Percent Solids: 77%

Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.85	--	1	A
Lindane	ND		ug/kg	3.28	--	1	A
Alpha-BHC	ND		ug/kg	4.10	--	1	A
Beta-BHC	ND		ug/kg	9.85	--	1	A
Heptachlor	ND		ug/kg	4.92	--	1	A
Aldrin	ND		ug/kg	9.85	--	1	A
Heptachlor epoxide	ND		ug/kg	18.5	--	1	A
Endrin	ND		ug/kg	4.10	--	1	A
Endrin ketone	ND		ug/kg	9.85	--	1	A
Dieldrin	ND	PI	ug/kg	6.15	--	1	B
4,4'-DDE	ND		ug/kg	9.85	--	1	A
4,4'-DDD	ND		ug/kg	9.85	--	1	A
4,4'-DDT	ND		ug/kg	18.5	--	1	A
Endosulfan I	ND		ug/kg	9.85	--	1	A
Endosulfan II	ND	PI	ug/kg	9.85	--	1	A
Endosulfan sulfate	ND		ug/kg	4.10	--	1	A
Methoxychlor	ND		ug/kg	18.5	--	1	A
Chlordane	ND		ug/kg	80.0	--	1	A
Hexachlorobenzene	ND		ug/kg	9.85	--	1	A
Toxaphene	ND		ug/kg	185	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	84		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07 D
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 22:13
Analyst: SL
Percent Solids: 77%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	42000	--	10	A
MCPA	ND		ug/kg	42000	--	10	A
Dalapon	ND		ug/kg	420	--	10	A
Dicamba	ND		ug/kg	420	--	10	A
Dichloroprop	ND		ug/kg	420	--	10	A
2,4-D	ND	PI	ug/kg	420	--	10	B
2,4-DB	ND		ug/kg	420	--	10	A
2,4,5-T	ND		ug/kg	420	--	10	A
2,4,5-TP (Silvex)	ND		ug/kg	420	--	10	A
Dinoseb	ND		ug/kg	420	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**2850**	Q	30-150	A
DCAA	**574**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/05/17 18:23
Analyst: KEG
Percent Solids: 85%

Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.23	--	1	A
Lindane	ND		ug/kg	3.08	--	1	A
Alpha-BHC	ND		ug/kg	3.84	--	1	A
Beta-BHC	ND		ug/kg	9.23	--	1	A
Heptachlor	ND		ug/kg	4.61	--	1	A
Aldrin	ND		ug/kg	9.23	--	1	A
Heptachlor epoxide	ND		ug/kg	17.3	--	1	A
Endrin	ND		ug/kg	3.84	--	1	A
Endrin ketone	ND		ug/kg	9.23	--	1	A
Dieldrin	10.6	PI	ug/kg	5.77	--	1	B
4,4'-DDE	ND		ug/kg	9.23	--	1	A
4,4'-DDD	ND		ug/kg	9.23	--	1	A
4,4'-DDT	23.5	PI	ug/kg	17.3	--	1	A
Endosulfan I	ND		ug/kg	9.23	--	1	A
Endosulfan II	ND	PI	ug/kg	9.23	--	1	A
Endosulfan sulfate	ND		ug/kg	3.84	--	1	A
Methoxychlor	ND		ug/kg	17.3	--	1	A
Chlordane	ND		ug/kg	75.0	--	1	A
Hexachlorobenzene	ND		ug/kg	9.23	--	1	A
Toxaphene	ND		ug/kg	173	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08 D
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/05/17 22:33
Analyst: SL
Percent Solids: 85%
Methylation Date: 07/01/17 10:19

Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	39000	--	10	A
MCPA	ND		ug/kg	39000	--	10	A
Dalapon	ND		ug/kg	390	--	10	A
Dicamba	ND		ug/kg	390	--	10	A
Dichloroprop	ND		ug/kg	390	--	10	A
2,4-D	ND		ug/kg	390	--	10	A
2,4-DB	ND		ug/kg	390	--	10	A
2,4,5-T	ND		ug/kg	390	--	10	A
2,4,5-TP (Silvex)	ND		ug/kg	390	--	10	A
Dinoseb	ND		ug/kg	390	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**4810**	Q	30-150	A
DCAA	**600**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 06/30/17 21:46
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 06/30/17 09:54
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-08 Batch: WG1018774-1						
Delta-BHC	ND		ug/kg	7.87	--	A
Lindane	ND		ug/kg	2.62	--	A
Alpha-BHC	ND		ug/kg	3.28	--	A
Beta-BHC	ND		ug/kg	7.87	--	A
Heptachlor	ND		ug/kg	3.94	--	A
Aldrin	ND		ug/kg	7.87	--	A
Heptachlor epoxide	ND		ug/kg	14.8	--	A
Endrin	ND		ug/kg	3.28	--	A
Endrin ketone	ND		ug/kg	7.87	--	A
Dieldrin	ND		ug/kg	4.92	--	A
4,4'-DDE	ND		ug/kg	7.87	--	A
4,4'-DDD	ND		ug/kg	7.87	--	A
4,4'-DDT	ND		ug/kg	14.8	--	A
Endosulfan I	ND		ug/kg	7.87	--	A
Endosulfan II	ND		ug/kg	7.87	--	A
Endosulfan sulfate	ND		ug/kg	3.28	--	A
Methoxychlor	ND		ug/kg	14.8	--	A
Chlordane	ND		ug/kg	64.0	--	A
Hexachlorobenzene	ND		ug/kg	7.87	--	A
Toxaphene	ND		ug/kg	148	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	92		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 07/01/17 15:08
Analyst: CD

Extraction Method: EPA 8151A
Extraction Date: 06/30/17 15:49

Methylation Date: 07/01/17 10:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-08 Batch: WG1018925-1						
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
Dinoseb	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	68		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-08 Batch: WG1018774-2 WG1018774-3									
Delta-BHC	78		84		40-140	7		30	A
Lindane	76		82		40-140	8		30	A
Alpha-BHC	81		89		40-140	9		30	A
Beta-BHC	78		79		40-140	1		30	A
Heptachlor	71		79		40-140	11		30	A
Aldrin	77		84		40-140	9		30	A
Heptachlor epoxide	76		81		40-140	6		30	A
Endrin	79		88		40-140	11		30	A
Endrin ketone	80		86		40-140	7		30	A
Dieldrin	83		91		40-140	9		30	A
4,4'-DDE	84		92		40-140	9		30	A
4,4'-DDD	72		79		40-140	9		30	A
4,4'-DDT	76		86		40-140	12		30	A
Endosulfan I	75		83		40-140	10		30	A
Endosulfan II	79		88		40-140	11		30	A
Endosulfan sulfate	66		68		40-140	3		30	A
Methoxychlor	74		84		40-140	13		30	A
Hexachlorobenzene	73		80		40-140	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-08 Batch: WG1018774-2 WG1018774-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		74		30-150	B
Decachlorobiphenyl	64		64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		87		30-150	A
Decachlorobiphenyl	85		94		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-08 Batch: WG1018774-4 WG1018774-5									
Toxaphene	72		78		40-140	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		78		30-150	B
Decachlorobiphenyl	71		67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		86		30-150	A
Decachlorobiphenyl	87		88		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-08 Batch: WG1018925-2 WG1018925-3									
MCPP	102		110		40-140	8		30	A
MCPA	88		94		40-140	7		30	A
Dalapon	66		71		40-140	7		30	A
Dicamba	78		82		40-140	5		30	A
Dichloroprop	85		92		40-140	8		30	A
2,4-D	99		99		40-140	0		30	A
2,4-DB	81		82		40-140	1		30	A
2,4,5-T	82		86		40-140	5		30	A
2,4,5-TP (Silvex)	74		78		40-140	5		30	A
Dinoseb	**5**	Q	**4**	Q	40-140	**33**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	70		71		30-150	A
DCAA	72		70		30-150	B

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 93%
Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	3.98		mg/kg	2.11	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Arsenic, Total	40.0		mg/kg	0.422	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Barium, Total	43.5		mg/kg	0.422	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.211	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Cadmium, Total	0.566		mg/kg	0.422	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Chromium, Total	17.1		mg/kg	0.422	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Lead, Total	202		mg/kg	2.11	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Mercury, Total	1.07		mg/kg	0.068	--	1	07/01/17 09:00	07/01/17 11:59	EPA 7471B	97,7471B	MG
Nickel, Total	10.6		mg/kg	1.06	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Selenium, Total	3.10		mg/kg	2.11	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.422	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.11	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Vanadium, Total	27.9		mg/kg	0.422	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM
Zinc, Total	235		mg/kg	2.11	--	1	06/30/17 21:24	07/01/17 14:08	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Lab Number: L1722222
Project Number: 171521.52
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 90%

Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	4.42		mg/kg	2.12	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Arsenic, Total	41.5		mg/kg	0.425	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Barium, Total	35.0		mg/kg	0.425	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.212	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.425	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Chromium, Total	13.0		mg/kg	0.425	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Lead, Total	140		mg/kg	2.12	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Mercury, Total	1.05		mg/kg	0.069	--	1	07/01/17 09:00	07/01/17 12:00	EPA 7471B	97,7471B	MG
Nickel, Total	7.08		mg/kg	1.06	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Selenium, Total	3.33		mg/kg	2.12	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Silver, Total	0.573		mg/kg	0.425	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.12	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Vanadium, Total	14.3		mg/kg	0.425	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM
Zinc, Total	118		mg/kg	2.12	--	1	06/30/17 21:24	07/01/17 14:12	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 84%
Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	15.0		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Arsenic, Total	202		mg/kg	0.469	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Barium, Total	50.0		mg/kg	0.469	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.235	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.469	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Chromium, Total	19.9		mg/kg	0.469	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Lead, Total	373		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Mercury, Total	3.01		mg/kg	0.076	--	1	07/01/17 09:00	07/01/17 12:02	EPA 7471B	97,7471B	MG
Nickel, Total	10.6		mg/kg	1.17	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Selenium, Total	6.37		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Silver, Total	0.587		mg/kg	0.469	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Vanadium, Total	28.6		mg/kg	0.469	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM
Zinc, Total	120		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:16	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 82%
Date Collected: 06/29/17 08:35
Date Received: 06/29/17
Field Prep: Not Specified

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	2.45	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Arsenic, Total	25.5		mg/kg	0.490	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Barium, Total	16.5		mg/kg	0.490	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.245	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.490	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Chromium, Total	12.6		mg/kg	0.490	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Lead, Total	32.1		mg/kg	2.45	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Mercury, Total	0.296		mg/kg	0.079	--	1	07/01/17 09:00	07/01/17 12:04	EPA 7471B	97,7471B	MG
Nickel, Total	8.13		mg/kg	1.22	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.45	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.490	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.45	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Vanadium, Total	15.1		mg/kg	0.490	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM
Zinc, Total	27.4		mg/kg	2.45	--	1	06/30/17 21:24	07/01/17 14:20	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 74%
Date Collected: 06/29/17 08:45
Date Received: 06/29/17
Field Prep: Not Specified

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	2.70	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Arsenic, Total	9.34		mg/kg	0.541	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Barium, Total	19.8		mg/kg	0.541	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.270	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.541	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Chromium, Total	19.7		mg/kg	0.541	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Lead, Total	6.39		mg/kg	2.70	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Mercury, Total	ND		mg/kg	0.090	--	1	07/01/17 09:00	07/01/17 12:06	EPA 7471B	97,7471B	MG
Nickel, Total	12.8		mg/kg	1.35	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.70	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.541	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.70	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Vanadium, Total	22.0		mg/kg	0.541	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM
Zinc, Total	33.6		mg/kg	2.70	--	1	06/30/17 21:24	07/01/17 14:24	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 83%
Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	11.0		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Arsenic, Total	166		mg/kg	0.470	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Barium, Total	34.6		mg/kg	0.470	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.235	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.470	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Chromium, Total	23.4		mg/kg	0.470	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Lead, Total	222		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Mercury, Total	1.92		mg/kg	0.075	--	1	07/01/17 09:00	07/01/17 12:08	EPA 7471B	97,7471B	MG
Nickel, Total	28.9		mg/kg	1.18	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Selenium, Total	3.52		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Silver, Total	1.45		mg/kg	0.470	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Vanadium, Total	20.4		mg/kg	0.470	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM
Zinc, Total	92.6		mg/kg	2.35	--	1	06/30/17 21:24	07/01/17 14:28	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 77%
Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified

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	2.54	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Arsenic, Total	20.6		mg/kg	0.507	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Barium, Total	21.4		mg/kg	0.507	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.254	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.507	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Chromium, Total	20.4		mg/kg	0.507	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Lead, Total	15.6		mg/kg	2.54	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Mercury, Total	0.793		mg/kg	0.086	--	1	07/01/17 09:00	07/01/17 12:14	EPA 7471B	97,7471B	MG
Nickel, Total	11.4		mg/kg	1.27	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.54	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Silver, Total	ND		mg/kg	0.507	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.54	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Vanadium, Total	22.9		mg/kg	0.507	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM
Zinc, Total	69.5		mg/kg	2.54	--	1	06/30/17 21:24	07/01/17 14:44	EPA 3050B	97,6010C	AM

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 85%
Date Collected: 06/29/17 09:15
Date Received: 06/29/17
Field Prep: Not Specified

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	2.29	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Arsenic, Total	44.5		mg/kg	0.457	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Barium, Total	17.7		mg/kg	0.457	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.229	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.457	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Chromium, Total	23.8		mg/kg	0.457	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Lead, Total	27.5		mg/kg	2.29	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Mercury, Total	0.110		mg/kg	0.074	--	1	07/01/17 09:00	07/01/17 12:15	EPA 7471B	97,7471B	MG
Nickel, Total	23.9		mg/kg	1.14	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Selenium, Total	ND		mg/kg	2.29	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Silver, Total	0.563		mg/kg	0.457	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Thallium, Total	ND		mg/kg	2.29	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Vanadium, Total	16.2		mg/kg	0.457	--	1	06/30/17 21:24	07/01/17 14:48	EPA 3050B	97,6010C	AM
Zinc, Total	3120		mg/kg	22.9	--	10	06/30/17 21:24	07/03/17 11:40	EPA 3050B	97,6010C	JH

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

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): 01-08 Batch: WG1018961-1										
Antimony, Total	ND		mg/kg	2.00	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Arsenic, Total	ND		mg/kg	0.400	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Barium, Total	ND		mg/kg	0.400	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Beryllium, Total	ND		mg/kg	0.200	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Cadmium, Total	ND		mg/kg	0.400	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Chromium, Total	ND		mg/kg	0.400	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Lead, Total	ND		mg/kg	2.00	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Nickel, Total	ND		mg/kg	1.00	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Selenium, Total	ND		mg/kg	2.00	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Silver, Total	ND		mg/kg	0.400	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Thallium, Total	ND		mg/kg	2.00	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Vanadium, Total	ND		mg/kg	0.400	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM
Zinc, Total	ND		mg/kg	2.00	--	1	06/30/17 21:24	07/01/17 13:56	97,6010C	AM

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): 01-08 Batch: WG1019044-1										
Mercury, Total	ND		mg/kg	0.083	--	1	07/01/17 09:00	07/01/17 11:53	97,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1018961-2 WG1018961-3 SRM Lot Number: D093-540								
Antimony, Total	202		**217**	Q	2-204	7		30
Arsenic, Total	96		122		70-130	24		30
Barium, Total	99		114		83-117	14		30
Beryllium, Total	96		104		83-117	8		30
Cadmium, Total	99		106		83-117	7		30
Chromium, Total	99		109		80-120	10		30
Lead, Total	101		108		82-117	7		30
Nickel, Total	98		105		83-117	7		30
Selenium, Total	108		106		78-122	2		30
Silver, Total	96		102		76-124	6		30
Thallium, Total	103		111		79-121	7		30
Vanadium, Total	102		108		78-122	6		30
Zinc, Total	100		108		83-117	8		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1019044-2 WG1019044-3 SRM Lot Number: D093-540								
Mercury, Total	89		89		72-168	0		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:05
Date Received: 06/29/17
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	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:15
Date Received: 06/29/17
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	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/29/17 08:25
Date Received: 06/29/17
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	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/29/17 08:35
Date Received: 06/29/17
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	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:45
Date Received: 06/29/17
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	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 09:05
Date Received: 06/29/17
Field Prep: Not Specified

Test Material Information

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

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 09:15
Date Received: 06/29/17
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	07/03/17 23:30	1,1030	SB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:05
Date Received: 06/29/17
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	1700		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	92.5		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	7.2		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:20	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:15
Date Received: 06/29/17
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	1300		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	90.4		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	7.3		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:20	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:25
Date Received: 06/29/17
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	1600		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	84.4		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:20	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-04
Client ID: MARINE 10 D
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:35
Date Received: 06/29/17
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	1400		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	81.6		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	7.3		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:20	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-05
Client ID: MARINE 10 E
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:45
Date Received: 06/29/17
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	960		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	73.5		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:20	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:27	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-06
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:55
Date Received: 06/29/17
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	1500		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	83.4		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	4.8		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:21	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:28	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-07
Client ID: MARINE 10 G
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 09:05
Date Received: 06/29/17
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	1800		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	76.5		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	5.1		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:21	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:28	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722222
Report Date: 07/06/17

SAMPLE RESULTS

Lab ID: L1722222-08
Client ID: MARINE 10 H
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 09:15
Date Received: 06/29/17
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	2400		umhos/cm	10	--	1	-	06/30/17 21:38	1,9050A	AS
Solids, Total	84.6		%	0.100	NA	1	-	06/30/17 13:01	121,2540G	RI
pH (H)	6.8		SU	-	NA	1	-	06/30/17 20:28	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	06/30/17 09:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:21	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:28	1,7.3	TL

Project Name: WYNN EVERETT
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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): 01-08 Batch: WG1019079-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:26	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1019080-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	07/01/17 10:55	07/01/17 13:19	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722222

Report Date: 07/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1018906-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1018978-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1018981-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1019079-2								
Sulfide, Reactive	106		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1019080-2								
Cyanide, Reactive	43		-		30-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1018806-1 QC Sample: L1722222-01 Client ID: MARINE 10 A						
Solids, Total	92.5	92.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1018978-2 QC Sample: L1722222-01 Client ID: MARINE 10 A						
pH (H)	7.2	7.2	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1018981-2 QC Sample: L1722222-01 Client ID: MARINE 10 A						
Specific Conductance @ 25 C	1700	1800	umhos/cm	6		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722222
Report Date: 07/06/17

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(*)
L1722222-01A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-01B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-01C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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)
L1722222-01E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-01F	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),FLASH(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-02A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-02B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-02C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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: L1722222
Report Date: 07/06/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1722222-02E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-02F	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),FLASH(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-03A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-03B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-03C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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)
L1722222-03E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-03F	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),FLASH(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-04A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-04B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-04C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-04D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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: L1722222
Report Date: 07/06/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1722222-04E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-04F	Glass 500ml/16oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-05A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-05B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-05C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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)
L1722222-05E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-05F	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),FLASH(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-06A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-06B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-06C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-06D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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: L1722222
Report Date: 07/06/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1722222-06E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-06F	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),FLASH(),TS(7),PH-9045(1),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-07A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-07B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-07C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-07D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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)
L1722222-07E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-07F	Glass 500ml/16oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-08A	Vial MeOH preserved	A	NA		5.2	Y	Absent		MCP-8260HLW-10(14)
L1722222-08B	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-08C	Vial water preserved	A	NA		5.2	Y	Absent	30-JUN-17 09:23	MCP-8260HLW-10(14)
L1722222-08D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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: L1722222
Report Date: 07/06/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1722222-08E	Glass 250ml/8oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1722222-08F	Glass 500ml/16oz unpreserved	A	NA		5.2	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),MCP(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1722222
Project Number:	171521.52	**Report Date:**	07/06/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1722222
Project Number:	171521.52	**Report Date:**	07/06/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1722222
Project Number:	171521.52	**Report Date:**	07/06/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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: 6/29/17

ALPHA Job #: L1722222

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

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/ Toxiphene	Conductivity, Flashpoint	Reactivity						Sample Specific Comments	TOTAL # BOTTLES
22222-01	Marine 10 A	6.29.17	0805	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
02	Marine 10 B	6.29.17	0815	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
03	Marine 10 C	6.29.17	0825	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
04	Marine 10 D	6.29.17	0835	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
05	Marine 10 E	6.29.17	0845	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
06	Marine 10 F	6.29.17	0855	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
07	Marine 10 G	6.29.17	0905	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
08	Marine 10 H	6.29.17	0915	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
Container Type						G	-	-	-	-	-	-	-	-	-	-	-		
Preservative						-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6-29-17 @ 11:50	[signature]	6/29/17 11:50
[signature] MAL 6/29/17	18:50	[signature] MAL	6/29/17 1850

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1722222
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1019371-5	**Lab File ID**	: V17170702A05
Instrument ID	: VOA117		
Matrix	: SOIL	**Analysis Date**	: 07/02/17 10:58

Client Sample No.	Lab Sample ID	Analysis Date
WG1019371-3LCS	WG1019371-3	07/02/17 09:13
WG1019371-4LCSD	WG1019371-4	07/02/17 09:39
MARINE 10 A	L1722222-01	07/02/17 15:19
MARINE 10 B	L1722222-02	07/02/17 15:45
MARINE 10 C	L1722222-03	07/02/17 16:11
MARINE 10 D	L1722222-04	07/02/17 16:37
MARINE 10 E	L1722222-05	07/02/17 17:03
MARINE 10 F	L1722222-06	07/02/17 17:29
MARINE 10 G	L1722222-07	07/02/17 17:55
MARINE 10 H	L1722222-08	07/02/17 18:21

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1722222	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA117	**Calibration Date**	: 07/02/17 09:13	
Lab File ID	: V17170702A01	**Init. Calib. Date(s)**	: 05/25/17	05/25/17
Sample No	: WG1019371-2	**Init. Calib. Times**	: 07:30	11:24
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	133	0
Dichlorodifluoromethane	0.438	0.289	-	34*	20	89	0
Chloromethane	0.533	0.396	-	25.7*	20	101	0
Vinyl chloride	0.519	0.346	-	33.3*	20	88	0
Bromomethane	0.334	0.198	-	40.7*	20	83	0
Chloroethane	0.277	0.18	-	35*	20	84	0
Trichlorofluoromethane	0.666	0.435	-	34.7*	20	88	0
Ethyl ether	0.143	0.13	-	9.1	20	127	0
1,1-Dichloroethene	0.314	0.28	-	10.8	20	124	0
Carbon disulfide	1.183	0.83	-	29.8*	20	92	0
Freon-113	0.287	0.263	-	8.4	20	123	0
Acrolein	20	18.906	-	5.5	20	138	0
Methylene chloride	0.349	0.299	-	14.3	20	122	0
Acetone	20	16.478	-	17.6	20	113	0
trans-1,2-Dichloroethene	0.344	0.302	-	12.2	20	121	0
Methyl acetate	0.151	0.129	-	14.6	20	120	0
Methyl tert-butyl ether	0.777	0.652	-	16.1	20	118	0
tert-Butyl alcohol	0.024	0.02	-	16.7	20	116	0
Diisopropyl ether	1.137	0.997	-	12.3	20	123	0
1,1-Dichloroethane	0.716	0.61	-	14.8	20	119	0
Halothane	0.294	0.27	-	8.2	20	128	0
Acrylonitrile	0.08	0.071	-	11.3	20	121	0
Ethyl tert-butyl ether	1.067	0.929	-	12.9	20	123	0
Vinyl acetate	0.662	0.541	-	18.3	20	115	0
cis-1,2-Dichloroethene	0.368	0.322	-	12.5	20	121	0
2,2-Dichloropropane	0.539	0.457	-	15.2	20	117	0
Bromochloromethane	0.162	0.141	-	13	20	119	0
Cyclohexane	0.636	0.61	-	4.1	20	130	0
Chloroform	0.646	0.536	-	17	20	115	0
Ethyl acetate	0.231	0.188	-	18.6	20	112	-.01
Carbon tetrachloride	0.518	0.445	-	14.1	20	117	0
Tetrahydrofuran	0.066	0.056	-	15.2	20	116	-.01
Dibromofluoromethane	0.267	0.251	-	6	20	126	0
1,1,1-Trichloroethane	0.594	0.496	-	16.5	20	115	0
2-Butanone	0.092	0.079	-	14.1	20	118	-.02
1,1-Dichloropropene	0.471	0.408	-	13.4	20	119	0
Benzene	1.414	1.232	-	12.9	20	122	0
tert-Amyl methyl ether	0.747	0.652	-	12.7	20	124	0
1,2-Dichloroethane-d4	0.273	0.238	-	12.8	20	118	0
1,2-Dichloroethane	0.475	0.349	-	26.5*	20	102	-.01
Methyl cyclohexane	0.53	0.488	-	7.9	20	125	0
Trichloroethene	0.41	0.356	-	13.2	20	121	0
Dibromomethane	0.191	0.156	-	18.3	20	112	0
1,2-Dichloropropane	0.413	0.362	-	12.3	20	122	0
2-Chloroethyl vinyl ether	0.103	0.11	-	-6.8	20	143	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1722222	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA117	Calibration Date	: 07/02/17 09:13	
Lab File ID	: V17170702A01	Init. Calib. Date(s)	: 05/25/17	05/25/17
Sample No	: WG1019371-2	Init. Calib. Times	: 07:30	11:24
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.471	0.375	-	20.4*	20	111	-.01
1,4-Dioxane	0.00217	0.00182	-	16.1	20	112	-.01
cis-1,3-Dichloropropene	0.532	0.45	-	15.4	20	119	0
Chlorobenzene-d5	1	1	-	0	20	121	0
Toluene-d8	1.295	1.372	-	-5.9	20	125	0
Toluene	1.072	1.038	-	3.2	20	121	0
4-Methyl-2-pentanone	0.107	0.093	-	13.1	20	116	0
Tetrachloroethene	0.5	0.503	-	-0.6	20	124	0
trans-1,3-Dichloropropene	0.553	0.508	-	8.1	20	116	0
Ethyl methacrylate	20	16.915	-	15.4	20	119	-.01
1,1,2-Trichloroethane	0.285	0.267	-	6.3	20	116	-.01
Chlorodibromomethane	0.421	0.38	-	9.7	20	115	0
1,3-Dichloropropane	0.498	0.455	-	8.6	20	114	0
1,2-Dibromoethane	0.308	0.285	-	7.5	20	117	0
2-Hexanone	0.192	0.155	-	19.3	20	106	-.01
Chlorobenzene	1.223	1.163	-	4.9	20	120	0
Ethylbenzene	2.129	2.016	-	5.3	20	118	0
1,1,1,2-Tetrachloroethane	0.447	0.416	-	6.9	20	116	0
p/m Xylene	0.819	0.786	-	4	20	120	0
o Xylene	0.776	0.709	-	8.6	20	114	0
Styrene	1.274	1.151	-	9.7	20	114	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	116	0
Bromoform	0.493	0.453	-	8.1	20	115	0
Isopropylbenzene	3.762	3.731	-	0.8	20	118	0
4-Bromofluorobenzene	0.873	0.921	-	-5.5	20	121	0
Bromobenzene	0.948	0.929	-	2	20	120	0
n-Propylbenzene	4.684	4.618	-	1.4	20	117	0
1,4-Dichlorobutane	1.159	1.107	-	4.5	20	114	0
1,1,2,2-Tetrachloroethane	0.685	0.628	-	8.3	20	112	0
4-Ethyltoluene	3.759	3.82	-	-1.6	20	120	0
2-Chlorotoluene	2.76	2.719	-	1.5	20	118	0
1,3,5-Trimethylbenzene	3.37	3.361	-	0.3	20	118	0
1,2,3-Trichloropropane	0.549	0.489	-	10.9	20	110	0
trans-1,4-Dichloro-2-buten	0.216	0.194	-	10.2	20	107	0
4-Chlorotoluene	2.813	2.755	-	2.1	20	118	0
tert-Butylbenzene	2.786	2.783	-	0.1	20	119	0
1,2,4-Trimethylbenzene	3.321	3.359	-	-1.1	20	119	0
sec-Butylbenzene	4.227	4.251	-	-0.6	20	118	0
p-Isopropyltoluene	3.573	3.579	-	-0.2	20	119	0
1,3-Dichlorobenzene	1.936	1.885	-	2.6	20	117	0
1,4-Dichlorobenzene	1.907	1.847	-	3.1	20	117	0
p-Diethylbenzene	2.194	2.201	-	-0.3	20	119	0
n-Butylbenzene	3.693	3.633	-	1.6	20	115	0
1,2-Dichlorobenzene	1.725	1.679	-	2.7	20	118	-.01
1,2,4,5-Tetramethylbenzene	3.311	3.354	-	-1.3	20	123	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1722222	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA117	**Calibration Date**	: 07/02/17 09:13	
Lab File ID	: V17170702A01	**Init. Calib. Date(s)**	: 05/25/17	05/25/17
Sample No	: WG1019371-2	**Init. Calib. Times**	: 07:30	11:24
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.099	0.09	-	9.1	20	116	0
1,3,5-Trichlorobenzene	1.514	1.533	-	-1.3	20	121	0
Hexachlorobutadiene	0.805	0.83	-	-3.1	20	124	0
1,2,4-Trichlorobenzene	1.291	1.299	-	-0.6	20	120	0
Naphthalene	2.257	2.107	-	6.6	20	115	0
1,2,3-Trichlorobenzene	1.159	1.14	-	1.6	20	120	0

*** Value outside of QC limits.**

I:\Pest11\170630b\11170630b-01.d

Data File Name	**11170630b-01.d**
Data File Path	**I:\Pest11\170630b**
Operator	**PEST11:keg**
Date Acquired	**6/30/2017 20:20**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170630b01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	5.00	762119201.1	% Breakdown
4,4'-DDE	4.35	4700800.00	
4,4'-DDD	4.79	9016027.898	1.77%
Endrin	4.74	522005464.6	% Breakdown
Endrin Aldehyde	5.20	3811040.602	
Endrin Ketone	5.71	12717331.17	3.07%
4,4'-DDT #2	5.61	1311275033.95	% Breakdown
4,4'-DDE #2	4.96	5708155.81	
4,4'-DDD #2	5.38	23472319.87	2.18%
Endrin #2	5.32	836847745.5	
Endrin Aldehyde #2	5.71	5083519.534	
Endrin Ketone #2	6.29	17201094	2.59%

######### Data File Path **I:\Pest17\150918**

wg1018774-1,2,3,4,5

I:\Pest11\170705a\11170705a-01.d

Data File Name	**11170705a-01.d**
Data File Path	**I:\Pest11\170705a**
Operator	**PEST11:keg**
Date Acquired	**7/5/2017 9:37**
Acq. Method File	**PEST_P11.M**
Sample Name	**pem11170705a01,42ee**
Instrument Name	**Pest 11**

Name	Ret Time	Response	
4,4'-DDT	4.96	700959533.9	% Breakdown
4,4'-DDE	4.31	3874060.43	
4,4'-DDD	4.76	14219929.44	2.52%
Endrin	4.70	506829659.7	% Breakdown
Endrin Aldehyde	5.17	3686853.897	
Endrin Ketone	5.66	10208075.01	2.67%
4,4'-DDT #2	5.57	1100130259.81	% Breakdown
4,4'-DDE #2	4.93	5209349.78	
4,4'-DDD #2	5.35	23646093.35	2.56%
Endrin #2	5.29	797868632	
Endrin Aldehyde #2	5.67	1964648.846	
Endrin Ketone #2	6.22	13676995.68	1.92%

######### Data File Path **I:\Pest17\150918**

L1722222-01,02,03,04,05,06,07,08

ANALYTICAL REPORT

Lab Number:	L1722430
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:	07/05/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1722430
Report Date: 07/05/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1722430-01	MARINE #9 A/B	SOIL	1 HORIZON WAY, EVERETT, MA	06/30/17 08:00	06/30/17
L1722430-02	MARINE #9 C/D1	SOIL	1 HORIZON WAY, EVERETT, MA	06/30/17 08:05	06/30/17
L1722430-03	MARINE #9 C/D2	SOIL	1 HORIZON WAY, EVERETT, MA	06/30/17 08:10	06/30/17
L1722430-04	MARINE #9 G/H1	SOIL	1 HORIZON WAY, EVERETT, MA	06/30/17 08:15	06/30/17
L1722430-05	MARINE #9 G/H2	SOIL	1 HORIZON WAY, EVERETT, MA	06/30/17 08:20	06/30/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722430
Report Date: 07/05/17

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:  Melissa Cripps

Title: Technical Director/Representative Date: 07/05/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1722430
Project Number: 171521.52
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722430-01
Client ID: MARINE #9 A/B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/30/17 08:00
Date Received: 06/30/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/30/17 21:40

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	2.86		mg/l	0.500	--	1	07/03/17 12:00	07/03/17 16:17	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1722430
Project Number: 171521.52
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722430-02
Client ID: MARINE #9 C/D1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/30/17 08:05
Date Received: 06/30/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/30/17 21:40

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	6.52		mg/l	0.500	--	1	07/03/17 12:00	07/03/17 16:53	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1722430
Project Number: 171521.52
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722430-03
Client ID: MARINE #9 C/D2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/30/17 08:10
Date Received: 06/30/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/30/17 21:40

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	7.07		mg/l	0.500	--	1	07/03/17 12:00	07/03/17 16:57	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1722430
Project Number: 171521.52
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722430-04
Client ID: MARINE #9 G/H1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/30/17 08:15
Date Received: 06/30/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/30/17 21:40

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	0.785		mg/l	0.500	--	1	07/03/17 12:00	07/03/17 17:01	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Lab Number: L1722430
Project Number: 171521.52
Report Date: 07/05/17

SAMPLE RESULTS

Lab ID: L1722430-05
Client ID: MARINE #9 G/H2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/30/17 08:20
Date Received: 06/30/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/30/17 21:40

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	1.32		mg/l	0.500	--	1	07/03/17 12:00	07/03/17 17:06	EPA 3015	1,6010C	AB

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722430
Report Date: 07/05/17

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): 01-05 Batch: WG1019378-1										
Lead, TCLP	ND		mg/l	0.500	--	1	07/03/17 12:00	07/03/17 14:52	1,6010C	AB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/30/17 21:40

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722430

Report Date: 07/05/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1019378-2								
Lead, TCLP	101		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722430
Report Date: 07/05/17

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): 01-05 QC Batch ID: WG1019378-3 QC Sample: L1721555-01 Client ID: MS Sample												
Lead, TCLP	ND	5.1	5.14	101		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722430
Report Date: 07/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1019378-4 QC Sample: L1721555-01 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722430
Report Date: 07/05/17

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(*)
L1722430-01A	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		-
L1722430-01X	Plastic 250ml HNO3 preserved Extracts	A	NA		3.3	Y	Absent		PB-CI(180)
L1722430-01X9	Tumble Vessel	A	NA		3.3	Y	Absent		-
L1722430-02A	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		-
L1722430-02X	Plastic 250ml HNO3 preserved Extracts	A	NA		3.3	Y	Absent		PB-CI(180)
L1722430-02X9	Tumble Vessel	A	NA		3.3	Y	Absent		-
L1722430-03A	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		-
L1722430-03X	Plastic 250ml HNO3 preserved Extracts	A	NA		3.3	Y	Absent		PB-CI(180)
L1722430-03X9	Tumble Vessel	A	NA		3.3	Y	Absent		-
L1722430-04A	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		-
L1722430-04X	Plastic 250ml HNO3 preserved Extracts	A	NA		3.3	Y	Absent		PB-CI(180)
L1722430-04X9	Tumble Vessel	A	NA		3.3	Y	Absent		-
L1722430-05A	Glass 250ml/8oz unpreserved	A	NA		3.3	Y	Absent		-
L1722430-05X	Plastic 250ml HNO3 preserved Extracts	A	NA		3.3	Y	Absent		PB-CI(180)
L1722430-05X9	Tumble Vessel	A	NA		3.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1722430
Project Number:	171521.52	**Report Date:**	07/05/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1722430
Project Number:	171521.52	**Report Date:**	07/05/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1722430
Project Number:	171521.52	**Report Date:**	07/05/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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: 06/30/17

ALPHA Job #: L1722430

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: ASAP 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

ANALYSIS

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP - Lead	Sample Specific Comments
L1722430-01	Marine #9 A/B	6/30/17	0800	S	MDD	☒	
02	Marine #9 C/D1	6/30/17	0805	S	MDD	☒	
03	Marine #9 C/D2	6/30/17	0810	S	MDD	☒	
04	Marine #9 G/H1	6/30/17	0815	S	MDD	☒	
05	Marine #9 G/H2	6/30/17	0820	S	MDD	☒	

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dietz	6-30-17 @ 1120		6/30/17 1120
	6/30/17 1808		6/30/17 1808

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:	L1722611
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:	07/07/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1722611
Report Date: 07/07/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1722611-01	IRON SLUDGE LAGOON-1	SLUDGE	1 HORIZON WAY, EVERETT, MA	06/28/17 09:00	06/28/17
L1722611-02	IRON SLUDGE LAGOON-2	SLUDGE	1 HORIZON WAY, EVERETT, MA	06/28/17 09:15	06/28/17
L1722611-03	IRON SLUDGE LAGOON-3	SLUDGE	1 HORIZON WAY, EVERETT, MA	06/28/17 09:30	06/28/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722611
Report Date: 07/07/17

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.

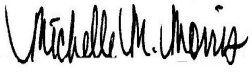
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Michelle M. Morris

Title: Technical Director/Representative Date: 07/07/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1722611
Project Number: 171521.52
Report Date: 07/07/17

SAMPLE RESULTS

Lab ID: L1722611-01
Client ID: IRON SLUDGE LAGOON-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge

Date Collected: 06/28/17 09:00
Date Received: 06/28/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/05/17 16:25

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	07/06/17 14:08	07/06/17 22:16	EPA 3015	1,6010C	MC

Project Name: WYNN EVERETT
Lab Number: L1722611
Project Number: 171521.52
Report Date: 07/07/17

SAMPLE RESULTS

Lab ID: L1722611-02
Client ID: IRON SLUDGE LAGOON-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Sludge

Date Collected: 06/28/17 09:15
Date Received: 06/28/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/05/17 16:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/06/17 14:08	07/06/17 22:33	EPA 3015	1,6010C	MC
Lead, TCLP	ND		mg/l	0.500	--	1	07/06/17 14:08	07/06/17 22:33	EPA 3015	1,6010C	MC
Mercury, TCLP	ND		mg/l	0.0010	--	1	07/06/17 15:52	07/07/17 11:51	EPA 7470A	1,7470A	MG

Project Name:	WYNN EVERETT	**Lab Number:**	L1722611
Project Number:	171521.52	**Report Date:**	07/07/17

SAMPLE RESULTS

Lab ID:	L1722611-03	Date Collected:	06/28/17 09:30
Client ID:	IRON SLUDGE LAGOON-3	Date Received:	06/28/17
Sample Location:	1 HORIZON WAY, EVERETT, MA	Field Prep:	Not Specified
Matrix:	Sludge	TCLP/SPLP Ext. Date:	07/05/17 16:25

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	07/06/17 14:08	07/06/17 22:37	EPA 3015	1,6010C	MC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722611
Report Date: 07/07/17

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: WG1020124-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/06/17 14:08	07/06/17 22:03	1,6010C	MC
Lead, TCLP	ND		mg/l	0.500	--	1	07/06/17 14:08	07/06/17 22:03	1,6010C	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/05/17 16:25

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): 02 Batch: WG1020163-1										
Mercury, TCLP	ND		mg/l	0.0010	--	1	07/06/17 15:52	07/07/17 11:48	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 07/05/17 16:25

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722611

Report Date: 07/07/17

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: WG1020124-2								
Arsenic, TCLP	107		-		75-125	-		20
Lead, TCLP	102		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1020163-2								
Mercury, TCLP	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722611
Report Date: 07/07/17

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: WG1020124-3 QC Sample: L1722611-01 Client ID: IRON SLUDGE LAGOON-1												
Arsenic, TCLP	ND	1.2	1.29	108		-	-		75-125	-		20
Lead, TCLP	ND	5.1	4.99	98		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1020163-3 QC Sample: L1722611-02 Client ID: IRON SLUDGE LAGOON-2												
Mercury, TCLP	ND	0.025	0.0252	101		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722611
Report Date: 07/07/17

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: WG1020124-4 QC Sample: L1722611-01 Client ID: IRON SLUDGE LAGOON-1						
Lead, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1020163-4 QC Sample: L1722611-02 Client ID: IRON SLUDGE LAGOON-2						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722611
Report Date: 07/07/17

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(*)
L1722611-01A	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		-
L1722611-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.8	Y	Absent		PB-CI(180)
L1722611-01X9	Tumble Vessel	A	NA		3.8	Y	Absent		-
L1722611-02A	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		-
L1722611-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.8	Y	Absent		AS-CI(180),HG-C(28),PB-CI(180)
L1722611-02X9	Tumble Vessel	A	NA		3.8	Y	Absent		-
L1722611-03A	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		-
L1722611-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.8	Y	Absent		PB-CI(180)
L1722611-03X9	Tumble Vessel	A	NA		3.8	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1722611
Project Number:	171521.52	**Report Date:**	07/07/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1722611
Project Number:	171521.52	**Report Date:**	07/07/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1722611
Project Number:	171521.52	**Report Date:**	07/07/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

L1722611 Edited by GD 7/05/17

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: 6/28/17

ALPHA Job #: L1722002

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: 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 meatals

22611-01

ANALYSIS

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

TCLP -PB

TCLP- AS, HG, PB

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/ Toxiphene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						TOTAL # BOTTLES	Sample Specific Comments
22002-01	Iron Sludge Lagoon - 1	6-28-17	9:00	Sludge	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
02	Iron Sludge Lagoon - 2	6-28-17	9:15	Sludge	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☒	☐		
03	Iron Sludge Lagoon - 3	6-28-17	9:30	Slude	DRS	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
Container Type						-	-	-	-	-	-	-	-	-	-	-	-		
Preservative						-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01(I) (rev. 3-JAN-13)

Relinquished By:	Date/Time	Received By:	Date/Time
AAL	6/28/17 1810	[illegible]	6/28/17 1227
			6/28/17 18

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:	L1722631
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:	07/07/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1722631
Report Date: 07/07/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1722631-01	MARINE 10 A	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:05	06/29/17
L1722631-02	MARINE 10 B	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:15	06/29/17
L1722631-03	MARINE 10 C	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:25	06/29/17
L1722631-04	MARINE 10 F	SOIL	1 HORIZON WAY, EVERETT, MA	06/29/17 08:55	06/29/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722631
Report Date: 07/07/17

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.

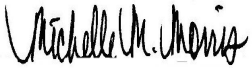
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Michelle M. Morris

Title: Technical Director/Representative Date: 07/07/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1722631
Project Number: 171521.52
Report Date: 07/07/17

SAMPLE RESULTS

Lab ID: L1722631-01
Client ID: MARINE 10 A
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/29/17 08:05
Date Received: 06/29/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/05/17 16:25

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	07/06/17 17:16	07/06/17 23:20	EPA 3015	1,6010C	MC

Project Name: WYNN EVERETT
Lab Number: L1722631
Project Number: 171521.52
Report Date: 07/07/17

SAMPLE RESULTS

Lab ID: L1722631-02
Client ID: MARINE 10 B
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/29/17 08:15
Date Received: 06/29/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/05/17 16:25

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	07/06/17 17:16	07/06/17 23:59	EPA 3015	1,6010C	MC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722631
Report Date: 07/07/17

SAMPLE RESULTS

Lab ID: L1722631-03
Client ID: MARINE 10 C
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 06/29/17 08:25
Date Received: 06/29/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/05/17 16:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/06/17 17:16	07/07/17 00:03	EPA 3015	1,6010C	MC
Lead, TCLP	ND		mg/l	0.500	--	1	07/06/17 17:16	07/07/17 00:03	EPA 3015	1,6010C	MC

Project Name: WYNN EVERETT
Lab Number: L1722631
Project Number: 171521.52
Report Date: 07/07/17

SAMPLE RESULTS

Lab ID: L1722631-04
Client ID: MARINE 10 F
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 06/29/17 08:55
Date Received: 06/29/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/05/17 16:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	3.87		mg/l	1.00	--	1	07/06/17 17:16	07/07/17 00:08	EPA 3015	1,6010C	MC
Lead, TCLP	3.15		mg/l	0.500	--	1	07/06/17 17:16	07/07/17 00:08	EPA 3015	1,6010C	MC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1722631
Report Date: 07/07/17

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): 01-04 Batch: WG1020188-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/06/17 17:16	07/06/17 22:58	1,6010C	MC
Lead, TCLP	ND		mg/l	0.500	--	1	07/06/17 17:16	07/06/17 22:58	1,6010C	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/05/17 16:25

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1722631

Report Date: 07/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04 Batch: WG1020188-2								
Arsenic, TCLP	99		-		75-125	-		20
Lead, TCLP	95		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722631
Report Date: 07/07/17

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): 01-04 QC Batch ID: WG1020188-3 QC Sample: L1722631-01 Client ID: MARINE 10 A												
Arsenic, TCLP	ND	1.2	1.31	109		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.13	100		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722631
Report Date: 07/07/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1020188-4 QC Sample: L1722631-01 Client ID: MARINE 10 A						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1722631
Report Date: 07/07/17

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(*)
L1722631-01A	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		-
L1722631-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.2	Y	Absent		PB-CI(180)
L1722631-01X9	Tumble Vessel	A	NA		5.2	Y	Absent		-
L1722631-02A	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		-
L1722631-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.2	Y	Absent		PB-CI(180)
L1722631-02X9	Tumble Vessel	A	NA		5.2	Y	Absent		-
L1722631-03A	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		-
L1722631-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.2	Y	Absent		AS-CI(180),PB-CI(180)
L1722631-03X9	Tumble Vessel	A	NA		5.2	Y	Absent		-
L1722631-04A	Glass 500ml/16oz unpreserved	A	NA		5.2	Y	Absent		-
L1722631-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.2	Y	Absent		AS-CI(180),PB-CI(180)
L1722631-04X9	Tumble Vessel	A	NA		5.2	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1722631
Project Number:	171521.52	**Report Date:**	07/07/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1722631
Project Number:	171521.52	**Report Date:**	07/07/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1722631
Project Number:	171521.52	**Report Date:**	07/07/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

L1722631 Edited by:SE 7/5/17

CHAIN OF CUSTODY

PAGE 1 OF 2

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: 6/29/17

ALPHA Job #: L1722222

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 meatals

22631-01

ANALYSIS

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

TCLP-PB
TCLP-AS

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/ Toxiphene	Conductivity, Flashpoint	Reactivity					Sample Specific Comments	TOTAL # BOTTLES
22722-01	Marine 10 A	6.29.17	0805	S	MDD	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
-02	Marine 10 B	6.29.17	0815	S	MDD	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	
-03	Marine 10 C	6.29.17	0825	S	MDD	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	
04	Marine 10 D	6.29.17	0835	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
05	Marine 10 E	6.29.17	0845	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
-04 06	Marine 10 F	6.29.17	0855	S	MDD	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	
07	Marine 10 G	6.29.17	0905	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
08	Marine 10 H	6.29.17	0915	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Container Type						G	-	-	-	-	-	-	-	-	-	-	-	
Preservative						-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] 6/29/17	6.29.17 18:50	[illegible] 6/29/17	6/29/17 11:50 6/29/17 1850

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:	L1723679
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:	07/20/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1723679
Report Date: 07/20/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1723679-01	OF-3	SOIL	1 HORIZON WAY, EVERETT, MA	07/12/17 10:00	07/12/17

Project Name: WYNN EVERETT **Lab Number:** L1723679

Project Number: 171521.52 **Report Date:** 07/20/17

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	**Lab Number:**	L1723679
Project Number:	171521.52	**Report Date:**	07/20/17

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:**	L1723679
Project Number:	171521.52	**Report Date:**	07/20/17

Case Narrative (continued)

Report Submission

This final report replaces the partial report issued earlier on July 20, 2017, and includes the results of all requested analyses.

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1723679-01, did not meet the method required average response factor for acetone.

The continuing calibration standard, associated with L1723679-01, 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.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1723679-01: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

L1723679-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

In reference to question G:

L1723679-01: One or more of the target analytes did not achieve the requested CAM reporting limits.

Project Name:	WYNN EVERETT	**Lab Number:**	L1723679
Project Number:	171521.52	**Report Date:**	07/20/17

Case Narrative (continued)

In reference to question H:

L1723679-01: 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: 07/20/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/17/17 09:46
Analyst: CBN
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	2.5	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.72	--	1
Chlorobenzene	ND		ug/kg	0.72	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	--	1
Bromodichloromethane	ND		ug/kg	0.72	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.72	--	1
1,1-Dichloropropene	ND		ug/kg	2.9	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Benzene	ND		ug/kg	0.72	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	--	1

Project Name: WYNN EVERETT **Lab Number:** L1723679

Project Number: 171521.52 **Report Date:** 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01 Date Collected: 07/12/17 10:00

Client ID: OF-3 Date Received: 07/12/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
Xylenes, Total	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	2.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	27		ug/kg	26	--	1
Carbon disulfide	4.6		ug/kg	2.9	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	2.9	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	3.6	--	1
1,2-Dibromoethane	ND		ug/kg	2.9	--	1
1,3-Dichloropropane	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Bromobenzene	ND		ug/kg	3.6	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	2.9	--	1
o-Chlorotoluene	ND		ug/kg	2.9	--	1
p-Chlorotoluene	ND		ug/kg	2.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	--	1

Project Name: WYNN EVERETT **Lab Number:** L1723679

Project Number: 171521.52 **Report Date:** 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01 Date Collected: 07/12/17 10:00

Client ID: OF-3 Date Received: 07/12/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.6	--	1
Diisopropyl Ether	ND		ug/kg	2.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.9	--	1
1,4-Dioxane	ND		ug/kg	29	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	108		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/17/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1023385-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/17/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1023385-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/17/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1023385-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/17/17 08:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1023385-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

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: WG1023385-3 WG1023385-4								
Methylene chloride	114		112		70-130	2		20
1,1-Dichloroethane	112		112		70-130	0		20
Chloroform	113		112		70-130	1		20
Carbon tetrachloride	113		111		70-130	2		20
1,2-Dichloropropane	110		108		70-130	2		20
Dibromochloromethane	95		101		70-130	6		20
1,1,2-Trichloroethane	96		98		70-130	2		20
Tetrachloroethene	103		108		70-130	5		20
Chlorobenzene	96		97		70-130	1		20
Trichlorofluoromethane	122		116		70-130	5		20
1,2-Dichloroethane	110		109		70-130	1		20
1,1,1-Trichloroethane	116		114		70-130	2		20
Bromodichloromethane	110		109		70-130	1		20
trans-1,3-Dichloropropene	95		98		70-130	3		20
cis-1,3-Dichloropropene	110		109		70-130	1		20
1,1-Dichloropropene	111		110		70-130	1		20
Bromoform	85		91		70-130	7		20
1,1,2,2-Tetrachloroethane	83		86		70-130	4		20
Benzene	112		111		70-130	1		20
Toluene	100		97		70-130	3		20
Ethylbenzene	98		97		70-130	1		20
Chloromethane	110		110		70-130	0		20
Bromomethane	117		111		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

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: WG1023385-3 WG1023385-4								
Vinyl chloride	114		112		70-130	2		20
Chloroethane	122		120		70-130	2		20
1,1-Dichloroethene	115		112		70-130	3		20
trans-1,2-Dichloroethene	115		112		70-130	3		20
Trichloroethene	115		114		70-130	1		20
1,2-Dichlorobenzene	85		91		70-130	7		20
1,3-Dichlorobenzene	91		91		70-130	0		20
1,4-Dichlorobenzene	88		90		70-130	2		20
Methyl tert butyl ether	109		108		70-130	1		20
p/m-Xylene	99		98		70-130	1		20
o-Xylene	99		98		70-130	1		20
cis-1,2-Dichloroethene	112		110		70-130	2		20
Dibromomethane	114		110		70-130	4		20
1,4-Dichlorobutane	84		91		70-130	8		20
1,2,3-Trichloropropane	85		88		70-130	3		20
Styrene	97		96		70-130	1		20
Dichlorodifluoromethane	118		115		70-130	3		20
Acetone	108		106		70-130	2		20
Carbon disulfide	116		111		70-130	4		20
Methyl ethyl ketone	111		108		70-130	3		20
Methyl isobutyl ketone	87		85		70-130	2		20
2-Hexanone	87		84		70-130	4		20
Ethyl methacrylate	89		90		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

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: WG1023385-3 WG1023385-4								
Acrylonitrile	110		108		70-130	2		20
Bromochloromethane	116		113		70-130	3		20
Tetrahydrofuran	109		106		70-130	3		20
2,2-Dichloropropane	116		114		70-130	2		20
1,2-Dibromoethane	96		101		70-130	5		20
1,3-Dichloropropane	95		98		70-130	3		20
1,1,1,2-Tetrachloroethane	98		97		70-130	1		20
Bromobenzene	92		91		70-130	1		20
n-Butylbenzene	89		94		70-130	5		20
sec-Butylbenzene	93		95		70-130	2		20
tert-Butylbenzene	93		94		70-130	1		20
o-Chlorotoluene	89		93		70-130	4		20
p-Chlorotoluene	88		92		70-130	4		20
1,2-Dibromo-3-chloropropane	80		85		70-130	6		20
Hexachlorobutadiene	87		92		70-130	6		20
Isopropylbenzene	91		94		70-130	3		20
p-Isopropyltoluene	92		95		70-130	3		20
Naphthalene	77		83		70-130	8		20
n-Propylbenzene	90		94		70-130	4		20
1,2,3-Trichlorobenzene	81		87		70-130	7		20
1,2,4-Trichlorobenzene	82		88		70-130	7		20
1,3,5-Trimethylbenzene	90		95		70-130	5		20
1,2,4-Trimethylbenzene	91		94		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

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: WG1023385-3 WG1023385-4								
trans-1,4-Dichloro-2-butene	83		88		70-130	6		20
Diethyl ether	111		110		70-130	1		20
Diisopropyl Ether	108		108		70-130	0		20
Ethyl-Tert-Butyl-Ether	109		108		70-130	1		20
Tertiary-Amyl Methyl Ether	108		108		70-130	0		20
1,4-Dioxane	102		98		70-130	4		20
2-Chloroethylvinyl ether	97		98		70-130	1		20
Halothane	115		114		70-130	1		20
Ethyl Acetate	108		105		70-130	3		20
Freon-113	118		114		70-130	3		20
Vinyl acetate	107		108		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		99		70-130
Toluene-d8	96		93		70-130
4-Bromofluorobenzene	92		97		70-130
Dibromofluoromethane	105		102		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/18/17 04:40
Analyst: PS
Percent Solids: 77%

Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/13/17 01:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	170	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	--	1
Hexachlorobenzene	ND		ug/kg	130	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	--	1
2-Chloronaphthalene	ND		ug/kg	220	--	1
1,2-Dichlorobenzene	ND		ug/kg	220	--	1
1,3-Dichlorobenzene	ND		ug/kg	220	--	1
1,4-Dichlorobenzene	ND		ug/kg	220	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	--	1
2,4-Dinitrotoluene	ND		ug/kg	220	--	1
2,6-Dinitrotoluene	ND		ug/kg	220	--	1
Azobenzene	ND		ug/kg	220	--	1
Fluoranthene	430		ug/kg	130	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Hexachloroethane	ND		ug/kg	170	--	1
Isophorone	ND		ug/kg	190	--	1
Naphthalene	ND		ug/kg	220	--	1
Nitrobenzene	ND		ug/kg	190	--	1
Bis(2-ethylhexyl)phthalate	840		ug/kg	220	--	1
Butyl benzyl phthalate	ND		ug/kg	220	--	1
Di-n-butylphthalate	ND		ug/kg	220	--	1
Di-n-octylphthalate	ND		ug/kg	220	--	1
Diethyl phthalate	ND		ug/kg	220	--	1
Dimethyl phthalate	ND		ug/kg	220	--	1
Benzo(a)anthracene	190		ug/kg	130	--	1
Benzo(a)pyrene	ND		ug/kg	170	--	1
Benzo(b)fluoranthene	190		ug/kg	130	--	1

Project Name: WYNN EVERETT **Lab Number:** L1723679

Project Number: 171521.52 **Report Date:** 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01 Date Collected: 07/12/17 10:00

Client ID: OF-3 Date Received: 07/12/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	130	--	1
Chrysene	180		ug/kg	130	--	1
Acenaphthylene	ND		ug/kg	170	--	1
Anthracene	ND		ug/kg	130	--	1
Benzo(ghi)perylene	ND		ug/kg	170	--	1
Fluorene	ND		ug/kg	220	--	1
Phenanthrene	340		ug/kg	130	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	--	1
Pyrene	380		ug/kg	130	--	1
Aniline	ND		ug/kg	260	--	1
4-Chloroaniline	ND		ug/kg	220	--	1
Dibenzofuran	ND		ug/kg	220	--	1
2-Methylnaphthalene	ND		ug/kg	260	--	1
Acetophenone	ND		ug/kg	220	--	1
2,4,6-Trichlorophenol	ND		ug/kg	130	--	1
2-Chlorophenol	ND		ug/kg	220	--	1
2,4-Dichlorophenol	ND		ug/kg	190	--	1
2,4-Dimethylphenol	ND		ug/kg	220	--	1
2-Nitrophenol	ND		ug/kg	460	--	1
4-Nitrophenol	ND		ug/kg	300	--	1
2,4-Dinitrophenol	ND		ug/kg	1000	--	1
Pentachlorophenol	ND		ug/kg	430	--	1
Phenol	ND		ug/kg	220	--	1
2-Methylphenol	ND		ug/kg	220	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	--	1
2,4,5-Trichlorophenol	ND		ug/kg	220	--	1
Pyridine	ND		ug/kg	230	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		30-130
Phenol-d6	63		30-130
Nitrobenzene-d5	68		30-130
2-Fluorobiphenyl	62		30-130
2,4,6-Tribromophenol	89		30-130
4-Terphenyl-d14	59		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 07/13/17 01:42
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/12/17 07:57

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1021701-1					
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: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 07/13/17 01:42
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/12/17 07:57

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1021701-1					
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	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 EVERETT
Project Number: 171521.52

Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 07/13/17 01:42
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/12/17 07:57

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1021701-1					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		30-130
Phenol-d6	86		30-130
Nitrobenzene-d5	87		30-130
2-Fluorobiphenyl	97		30-130
2,4,6-Tribromophenol	113		30-130
4-Terphenyl-d14	102		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1021701-2 WG1021701-3								
Acenaphthene	95		89		40-140	7		30
1,2,4-Trichlorobenzene	83		66		40-140	23		30
Hexachlorobenzene	114		114		40-140	0		30
Bis(2-chloroethyl)ether	81		75		40-140	8		30
2-Chloronaphthalene	81		95		40-140	16		30
1,2-Dichlorobenzene	68		69		40-140	1		30
1,3-Dichlorobenzene	69		66		40-140	4		30
1,4-Dichlorobenzene	71		68		40-140	4		30
3,3'-Dichlorobenzidine	71		65		40-140	9		30
2,4-Dinitrotoluene	110		109		40-140	1		30
2,6-Dinitrotoluene	102		115		40-140	12		30
Azobenzene	125		114		40-140	9		30
Fluoranthene	108		90		40-140	18		30
4-Bromophenyl phenyl ether	115		111		40-140	4		30
Bis(2-chloroisopropyl)ether	88		78		40-140	12		30
Bis(2-chloroethoxy)methane	95		74		40-140	25		30
Hexachlorobutadiene	88		86		40-140	2		30
Hexachloroethane	80		73		40-140	9		30
Isophorone	98		84		40-140	15		30
Naphthalene	81		77		40-140	5		30
Nitrobenzene	97		87		40-140	11		30
Bis(2-ethylhexyl)phthalate	94		80		40-140	16		30
Butyl benzyl phthalate	119		101		40-140	16		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1021701-2 WG1021701-3								
Di-n-butylphthalate	111		94		40-140	17		30
Di-n-octylphthalate	103		74		40-140	**33**	Q	30
Diethyl phthalate	124		113		40-140	9		30
Dimethyl phthalate	100		110		40-140	10		30
Benzo(a)anthracene	86		78		40-140	10		30
Benzo(a)pyrene	92		74		40-140	22		30
Benzo(b)fluoranthene	92		76		40-140	19		30
Benzo(k)fluoranthene	89		71		40-140	23		30
Chrysene	83		75		40-140	10		30
Acenaphthylene	94		106		40-140	12		30
Anthracene	81		72		40-140	12		30
Benzo(ghi)perylene	83		77		40-140	8		30
Fluorene	113		100		40-140	12		30
Phenanthrene	84		77		40-140	9		30
Dibenzo(a,h)anthracene	89		84		40-140	6		30
Indeno(1,2,3-cd)pyrene	85		80		40-140	6		30
Pyrene	106		78		40-140	30		30
Aniline	66		58		40-140	13		30
4-Chloroaniline	92		82		40-140	11		30
Dibenzofuran	106		102		40-140	4		30
2-Methylnaphthalene	87		94		40-140	8		30
Acetophenone	100		90		40-140	11		30
2,4,6-Trichlorophenol	109		116		30-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1021701-2 WG1021701-3								
2-Chlorophenol	84		78		30-130	7		30
2,4-Dichlorophenol	101		81		30-130	22		30
2,4-Dimethylphenol	105		83		30-130	23		30
2-Nitrophenol	100		85		30-130	16		30
4-Nitrophenol	129		128		30-130	1		30
2,4-Dinitrophenol	82		71		30-130	14		30
Pentachlorophenol	98		85		30-130	14		30
Phenol	83		77		30-130	8		30
2-Methylphenol	97		88		30-130	10		30
3-Methylphenol/4-Methylphenol	105		94		30-130	11		30
2,4,5-Trichlorophenol	102		117		30-130	14		30
Pyridine	40		45		30-130	12		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		81		30-130
Phenol-d6	94		86		30-130
Nitrobenzene-d5	99		87		30-130
2-Fluorobiphenyl	86		105		30-130
2,4,6-Tribromophenol	**131**	Q	120		30-130
4-Terphenyl-d14	105		87		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/13/17 20:32
Analyst: DG
Percent Solids: 77%

Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/13/17 01:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	42700	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 07/13/17 10:24
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 07/12/17 14:34

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1021877-1					
TPH	ND		ug/kg	32500	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1021877-2								
TPH	99		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	86				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 07/19/17 07:12
Analyst: JA
Percent Solids: 77%

Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/18/17 12:43
Cleanup Method: EPA 3665A
Cleanup Date: 07/18/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.6	--	1	A
Aroclor 1221	ND		ug/kg	41.6	--	1	A
Aroclor 1232	ND		ug/kg	41.6	--	1	A
Aroclor 1242	ND		ug/kg	41.6	--	1	A
Aroclor 1248	ND		ug/kg	41.6	--	1	A
Aroclor 1254	372		ug/kg	41.6	--	1	B
Aroclor 1260	96.4		ug/kg	41.6	--	1	B
Aroclor 1262	ND		ug/kg	41.6	--	1	A
Aroclor 1268	ND		ug/kg	41.6	--	1	A
PCBs, Total	468		ug/kg	41.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 07/18/17 02:00
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 07/17/17 19:09
Cleanup Method: EPA 3665A
Cleanup Date: 07/17/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01 Batch: WG1023268-1						
Aroclor 1016	ND		ug/kg	31.9	--	A
Aroclor 1221	ND		ug/kg	31.9	--	A
Aroclor 1232	ND		ug/kg	31.9	--	A
Aroclor 1242	ND		ug/kg	31.9	--	A
Aroclor 1248	ND		ug/kg	31.9	--	A
Aroclor 1254	ND		ug/kg	31.9	--	A
Aroclor 1262	ND		ug/kg	31.9	--	A
Aroclor 1268	ND		ug/kg	31.9	--	A
Aroclor 1260	ND		ug/kg	31.9	--	B
PCBs, Total	ND		ug/kg	31.9	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	76		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01 Batch: WG1023268-2 WG1023268-3									
Aroclor 1016	77		83		40-140	8		30	A
Aroclor 1260	78		82		40-140	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		84		30-150	A
Decachlorobiphenyl	78		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		83		30-150	B
Decachlorobiphenyl	77		77		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/19/17 19:27
Analyst: DM
Percent Solids: 77%

Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/12/17 12:48
Cleanup Method: EPA 3620B
Cleanup Date: 07/13/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	10.0	--	1	A
Lindane	ND		ug/kg	3.34	--	1	A
Alpha-BHC	ND		ug/kg	4.18	--	1	A
Beta-BHC	ND		ug/kg	10.0	--	1	A
Heptachlor	ND		ug/kg	5.01	--	1	A
Aldrin	ND		ug/kg	10.0	--	1	A
Heptachlor epoxide	ND		ug/kg	18.8	--	1	A
Endrin	ND		ug/kg	4.18	--	1	A
Endrin ketone	ND		ug/kg	10.0	--	1	A
Dieldrin	6.45	P	ug/kg	6.26	--	1	A
4,4'-DDE	ND		ug/kg	10.0	--	1	A
4,4'-DDD	ND		ug/kg	10.0	--	1	A
4,4'-DDT	ND	PI	ug/kg	18.8	--	1	A
Endosulfan I	ND		ug/kg	10.0	--	1	A
Endosulfan II	ND	PI	ug/kg	10.0	--	1	A
Endosulfan sulfate	ND		ug/kg	4.18	--	1	A
Methoxychlor	ND		ug/kg	18.8	--	1	B
Chlordane	ND		ug/kg	81.4	--	1	A
Hexachlorobenzene	ND		ug/kg	10.0	--	1	A
Toxaphene	ND		ug/kg	188	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01 D
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/17/17 13:53
Analyst: EC
Percent Solids: 77%
Methylation Date: 07/13/17 09:20

Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 07/13/17 03:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	86000	--	20	A
MCPA	ND		ug/kg	86000	--	20	A
Dalapon	ND		ug/kg	860	--	20	A
Dicamba	ND		ug/kg	860	--	20	A
Dichloroprop	ND		ug/kg	860	--	20	A
2,4-D	ND		ug/kg	860	--	20	A
2,4-DB	ND		ug/kg	860	--	20	A
2,4,5-T	ND		ug/kg	860	--	20	A
2,4,5-TP (Silvex)	ND		ug/kg	860	--	20	A
Dinoseb	ND		ug/kg	860	--	20	A

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: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 07/13/17 10:51
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/12/17 07:38

Methylation Date: 07/12/17 18:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01 Batch: WG1021946-1						
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
Dinoseb	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	87		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1723679
Report Date: 07/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 07/19/17 18:35
Analyst: DM

Extraction Method: EPA 3546
Extraction Date: 07/12/17 12:48
Cleanup Method: EPA 3620B
Cleanup Date: 07/16/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01 Batch: WG1024008-1						
Delta-BHC	ND		ug/kg	7.73	--	A
Lindane	ND		ug/kg	2.58	--	A
Alpha-BHC	ND		ug/kg	3.22	--	A
Beta-BHC	ND		ug/kg	7.73	--	A
Heptachlor	ND		ug/kg	3.86	--	A
Aldrin	ND		ug/kg	7.73	--	A
Heptachlor epoxide	ND		ug/kg	14.5	--	A
Endrin	ND		ug/kg	3.22	--	A
Endrin ketone	ND		ug/kg	7.73	--	A
Dieldrin	ND		ug/kg	4.83	--	A
4,4'-DDE	ND		ug/kg	7.73	--	A
4,4'-DDD	ND		ug/kg	7.73	--	A
4,4'-DDT	ND		ug/kg	14.5	--	A
Endosulfan I	ND		ug/kg	7.73	--	A
Endosulfan II	ND		ug/kg	7.73	--	A
Endosulfan sulfate	ND		ug/kg	3.22	--	A
Methoxychlor	ND		ug/kg	14.5	--	A
Chlordane	ND		ug/kg	62.8	--	A
Hexachlorobenzene	ND		ug/kg	7.73	--	A
Toxaphene	ND		ug/kg	145	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	55		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01 Batch: WG1021946-2 WG1021946-3									
MCPP	128		121		40-140	6		30	A
MCPA	120		107		40-140	11		30	A
Dalapon	84		83		40-140	1		30	A
Dicamba	100		101		40-140	1		30	A
Dichloroprop	89		99		40-140	11		30	A
2,4-D	94		96		40-140	2		30	A
2,4-DB	97		89		40-140	9		30	A
2,4,5-T	86		85		40-140	1		30	A
2,4,5-TP (Silvex)	102		102		40-140	0		30	A
Dinoseb	42		65		40-140	**43**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	89		88		30-150	A
DCAA	95		93		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1024008-2 WG1024008-3									
Delta-BHC	64		78		40-140	20		30	A
Lindane	68		81		40-140	17		30	A
Alpha-BHC	69		82		40-140	17		30	A
Beta-BHC	65		77		40-140	17		30	A
Heptachlor	70		83		40-140	17		30	A
Aldrin	65		78		40-140	18		30	A
Heptachlor epoxide	58		72		40-140	22		30	A
Endrin	65		78		40-140	18		30	A
Endrin ketone	58		69		40-140	17		30	A
Dieldrin	68		83		40-140	20		30	A
4,4'-DDE	68		83		40-140	20		30	A
4,4'-DDD	70		84		40-140	18		30	A
4,4'-DDT	70		85		40-140	19		30	A
Endosulfan I	64		78		40-140	20		30	A
Endosulfan II	62		76		40-140	20		30	A
Endosulfan sulfate	57		68		40-140	18		30	A
Methoxychlor	64		77		40-140	18		30	A
Hexachlorobenzene	60		70		40-140	15		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1024008-2 WG1024008-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		68		30-150	B
Decachlorobiphenyl	73		80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		80		30-150	A
Decachlorobiphenyl	48		55		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1024008-4 WG1024008-5									
Toxaphene	108		102		40-140	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		72		30-150	B
Decachlorobiphenyl	81		82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		79		30-150	A
Decachlorobiphenyl	59		55		30-150	A

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 77%

Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.19		mg/kg	2.52	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Arsenic, Total	153		mg/kg	0.505	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Barium, Total	48.2		mg/kg	0.505	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.252	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Cadmium, Total	3.19		mg/kg	0.505	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Chromium, Total	25.6		mg/kg	0.505	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Lead, Total	459		mg/kg	2.52	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Mercury, Total	2.86		mg/kg	0.083	--	1	07/13/17 09:00	07/13/17 11:55	EPA 7471B	97,7471B	BV
Nickel, Total	14.5		mg/kg	1.26	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Selenium, Total	10.9		mg/kg	2.52	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Silver, Total	2.24		mg/kg	0.505	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Thallium, Total	ND		mg/kg	2.52	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Vanadium, Total	41.8		mg/kg	0.505	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS
Zinc, Total	443		mg/kg	2.52	--	1	07/13/17 06:00	07/13/17 13:31	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

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: WG1022071-1										
Mercury, Total	ND		mg/kg	0.083	--	1	07/13/17 09:00	07/13/17 10:41	97,7471B	BV

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: WG1022092-1										
Antimony, Total	ND		mg/kg	2.00	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.400	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Barium, Total	ND		mg/kg	0.400	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Chromium, Total	ND		mg/kg	0.400	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Lead, Total	ND		mg/kg	2.00	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Nickel, Total	ND		mg/kg	1.00	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Selenium, Total	ND		mg/kg	2.00	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Silver, Total	ND		mg/kg	0.400	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Thallium, Total	ND		mg/kg	2.00	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.400	--	1	07/13/17 06:00	07/13/17 13:19	97,6010C	PS
Zinc, Total	ND		mg/kg	2.00	--	1	07/13/17 06:00	07/13/17 13:58	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1022071-2 WG1022071-3 SRM Lot Number: D093-540								
Mercury, Total	100		97		72-168	3		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1022092-2 WG1022092-3 SRM Lot Number: D093-540								
Antimony, Total	183		193		2-204	5		30
Arsenic, Total	81		97		70-130	18		30
Barium, Total	91		91		83-117	0		30
Beryllium, Total	92		91		83-117	1		30
Cadmium, Total	99		104		83-117	5		30
Chromium, Total	99		98		80-120	1		30
Lead, Total	98		103		82-117	5		30
Nickel, Total	96		99		83-117	3		30
Selenium, Total	91		104		78-122	13		30
Silver, Total	96		92		76-124	4		30
Thallium, Total	94		100		79-121	6		30
Vanadium, Total	97		98		78-122	1		30
Zinc, Total	98		100		83-117	2		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 07/12/17 10:00
Date Received: 07/12/17
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	07/13/17 22:15	1,1030	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

SAMPLE RESULTS

Lab ID: L1723679-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 07/12/17 10:00
Date Received: 07/12/17
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	1100		umhos/cm	10	--	1	-	07/13/17 17:55	1,9050A	AS
Solids, Total	76.5		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
pH (H)	7.1		SU	-	NA	1	-	07/13/17 17:08	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	07/13/17 13:55	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/13/17 18:20	07/13/17 20:55	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	07/13/17 18:20	07/13/17 20:48	1,7.3	TL

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1723679
Report Date: 07/20/17

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: WG1022344-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	07/13/17 18:20	07/13/17 20:47	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1022345-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	07/13/17 18:20	07/13/17 20:55	1,7.3	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1723679

Report Date: 07/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1022323-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1022344-2								
Sulfide, Reactive	108		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1022345-2								
Cyanide, Reactive	83		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1022349-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1022361-1								
Specific Conductance	100		-		99-101	-		

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1723679
Report Date: 07/20/17

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(*)
L1723679-01A	Vial MeOH preserved	A	NA		4.3	Y	Absent		MCP-8260HLW-10(14)
L1723679-01B	Vial water preserved	A	NA		4.3	Y	Absent	13-JUL-17 06:48	MCP-8260HLW-10(14)
L1723679-01C	Vial water preserved	A	NA		4.3	Y	Absent	13-JUL-17 06:48	MCP-8260HLW-10(14)
L1723679-01D	Metals Only-Glass 60mL/2oz unpreserved	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-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)
L1723679-01E	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)
L1723679-01F	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 EVERETT	**Lab Number:**	L1723679
Project Number:	171521.52	**Report Date:**	07/20/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1723679
Project Number:	171521.52	**Report Date:**	07/20/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1723679
Project Number:	171521.52	**Report Date:**	07/20/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 7/14/17

CHAIN OF CUSTODY

PAGE 1 OF 1

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: 7/12/17

ALPHA Job #: L1723679

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~~ WYNN EVERETT
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.0~~171521.52
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 meatals

ANALYSIS

MCP-14 Metals; VOC's 8260; SVOC's 8270 with Pyridine; PCB's, TPH, pH lgnt; Herbicides, Pesticides w/ Toxiphene; Conductivity, Flashpoint; Reactivity

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

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
23679-01	OF-3	7/12/17	1000	S	KS

Container Type
Preservative

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dietz	7/12/17 1305	[illegible]	7/12/17 1305
AAL	7/12/17 1807	[illegible]	7/12/17 1807

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)

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: 7/12/17

ALPHA Job #: L1723679

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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/ Toxiphene	Conductivity, Flashpoint	Reactivity						TOTAL # BOTTLES	Sample Specific Comments
23679-01	OF-3	7/12/17	1000	S	KS	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type													
Preservative													

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dec	7/12/17 1305		7/12/17 1305
AAL	7/12/17 1807		7/12/17 1807

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1723679
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1023385-5	**Lab File ID**	: V11170717A05
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 07/17/17 08:55

Client Sample No.	Lab Sample ID	Analysis Date
WG1023385-3LCS	WG1023385-3	07/17/17 07:14
WG1023385-4LCSD	WG1023385-4	07/17/17 07:39
OF-3	L1723679-01	07/17/17 09:46

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1723679	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 07/17/17 07:14	
Lab File ID	: V11170717A01	Init. Calib. Date(s)	: 07/12/17	07/12/17
Sample No	: WG1023385-2	Init. Calib. Times	: 10:34	15:43
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	86	-.01
Dichlorodifluoromethane	0.452	0.536	-	-18.6	20	102	0
Chloromethane	0.599	0.663	-	-10.7	20	96	0
Vinyl chloride	0.519	0.59	-	-13.7	20	99	0
Bromomethane	0.308	0.362	-	-17.5	20	102	0
Chloroethane	0.292	0.358	-	-22.6*	20	100	0
Trichlorofluoromethane	0.553	0.676	-	-22.2*	20	105	0
Ethyl ether	0.248	0.276	-	-11.3	20	99	0
1,1-Dichloroethene	0.34	0.39	-	-14.7	20	100	0
Carbon disulfide	1.275	1.476	-	-15.8	20	99	0
Freon-113	0.316	0.374	-	-18.4	20	101	0
Acrolein	0.111	0.109	-	1.8	20	96	0
Methylene chloride	0.444	0.509	-	-14.6	20	100	0
Acetone	0.099	0.107	-	-8.1	20	96	-.01
trans-1,2-Dichloroethene	0.393	0.451	-	-14.8	20	100	-.01
Methyl acetate	0.271	0.297	-	-9.6	20	96	0
Methyl tert-butyl ether	1.206	1.32	-	-9.5	20	98	-.01
tert-Butyl alcohol	0.043	0.042	-	2.3	20	91	-.01
Diisopropyl ether	1.609	1.743	-	-8.3	20	95	-.01
1,1-Dichloroethane	0.835	0.939	-	-12.5	20	97	-.01
Halothane	0.266	0.307	-	-15.4	20	100	-.01
Acrylonitrile	0.137	0.151	-	-10.2	20	96	-.02
Ethyl tert-butyl ether	1.433	1.562	-	-9	20	97	-.01
Vinyl acetate	1.066	1.145	-	-7.4	20	93	-.01
cis-1,2-Dichloroethene	0.441	0.493	-	-11.8	20	99	0
2,2-Dichloropropane	0.643	0.749	-	-16.5	20	99	-.01
Bromochloromethane	0.18	0.209	-	-16.1	20	102	0
Cyclohexane	0.744	0.847	-	-13.8	20	98	-.01
Chloroform	0.74	0.834	-	-12.7	20	98	-.01
Ethyl acetate	0.396	0.429	-	-8.3	20	96	-.01
Carbon tetrachloride	0.5	0.567	-	-13.4	20	98	-.01
Tetrahydrofuran	0.142	0.154	-	-8.5	20	94	-.02
Dibromofluoromethane	0.271	0.285	-	-5.2	20	92	-.02
1,1,1-Trichloroethane	0.601	0.699	-	-16.3	20	101	-.01
2-Butanone	0.165	0.184	-	-11.5	20	103	-.02
1,1-Dichloropropene	0.575	0.64	-	-11.3	20	97	-.01
Benzene	1.781	2.004	-	-12.5	20	99	-.01
tert-Amyl methyl ether	1.222	1.318	-	-7.9	20	97	-.01
1,2-Dichloroethane-d4	0.291	0.293	-	-0.7	20	89	-.01
1,2-Dichloroethane	0.555	0.609	-	-9.7	20	96	-.01
Methyl cyclohexane	0.655	0.743	-	-13.4	20	99	-.01
Trichloroethene	0.416	0.477	-	-14.7	20	100	-.01
Dibromomethane	0.235	0.268	-	-14	20	101	-.01
1,2-Dichloropropane	0.497	0.544	-	-9.5	20	96	-.01
2-Chloroethyl vinyl ether	20	19.339	-	3.3	20	95	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1723679	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA111	Calibration Date	: 07/17/17 07:14	
Lab File ID	: V11170717A01	Init. Calib. Date(s)	: 07/12/17	07/12/17
Sample No	: WG1023385-2	Init. Calib. Times	: 10:34	15:43
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.591	0.648	-	-9.6	20	97	-.01
1,4-Dioxane	1000	1016.724	-	-1.7	20	98	-.01
cis-1,3-Dichloropropene	0.759	0.834	-	-9.9	20	98	-.01
Chlorobenzene-d5	1	1	-	0	20	100	-.01
Toluene-d8	1.065	1.025	-	3.8	20	94	-.01
Toluene	0.893	0.892	-	0.1	20	100	-.01
4-Methyl-2-pentanone	0.125	0.108	-	13.6	20	93	-.01
Tetrachloroethene	0.324	0.334	-	-3.1	20	104	-.01
trans-1,3-Dichloropropene	0.559	0.531	-	5	20	97	-.01
Ethyl methacrylate	0.458	0.406	-	11.4	20	93	-.01
1,1,2-Trichloroethane	0.27	0.258	-	4.4	20	96	-.01
Chlorodibromomethane	0.335	0.317	-	5.4	20	98	-.01
1,3-Dichloropropane	0.566	0.539	-	4.8	20	95	-.01
1,2-Dibromoethane	0.277	0.267	-	3.6	20	98	-.02
2-Hexanone	0.208	0.182	-	12.5	20	90	-.01
Chlorobenzene	0.959	0.92	-	4.1	20	98	0
Ethylbenzene	1.681	1.649	-	1.9	20	98	-.01
1,1,1,2-Tetrachloroethane	0.336	0.328	-	2.4	20	99	-.01
p/m Xylene	0.619	0.613	-	1	20	98	-.01
o Xylene	0.577	0.569	-	1.4	20	99	-.01
Styrene	1.007	0.979	-	2.8	20	98	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	111	-.01
Bromoform	0.378	0.323	-	14.6	20	98	-.01
Isopropylbenzene	2.745	2.49	-	9.3	20	101	-.01
4-Bromofluorobenzene	0.954	0.877	-	8.1	20	102	-.01
Bromobenzene	0.677	0.62	-	8.4	20	106	-.01
n-Propylbenzene	3.591	3.241	-	9.7	20	100	0
1,4-Dichlorobutane	1.09	0.912	-	16.3	20	94	-.01
1,1,2,2-Tetrachloroethane	0.757	0.626	-	17.3	20	95	0
4-Ethyltoluene	2.843	2.582	-	9.2	20	100	0
2-Chlorotoluene	2.488	2.225	-	10.6	20	99	-.01
1,3,5-Trimethylbenzene	2.369	2.135	-	9.9	20	100	0
1,2,3-Trichloropropane	0.598	0.506	-	15.4	20	96	-.01
trans-1,4-Dichloro-2-buten	0.206	0.171	-	17	20	90	-.01
4-Chlorotoluene	2.23	1.958	-	12.2	20	98	-.01
tert-Butylbenzene	1.93	1.791	-	7.2	20	104	0
1,2,4-Trimethylbenzene	2.413	2.202	-	8.7	20	100	-.01
sec-Butylbenzene	3.063	2.845	-	7.1	20	102	-.01
p-Isopropyltoluene	2.513	2.318	-	7.8	20	102	0
1,3-Dichlorobenzene	1.372	1.249	-	9	20	104	0
1,4-Dichlorobenzene	1.407	1.237	-	12.1	20	103	0
p-Diethylbenzene	1.545	1.363	-	11.8	20	98	0
n-Butylbenzene	2.706	2.407	-	11	20	98	-.01
1,2-Dichlorobenzene	1.285	1.094	-	14.9	20	98	0
1,2,4,5-Tetramethylbenzene	2.427	2.041	-	15.9	20	97	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1723679	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA111	**Calibration Date**	: 07/17/17 07:14	
Lab File ID	: V11170717A01	**Init. Calib. Date(s)**	: 07/12/17	07/12/17
Sample No	: WG1023385-2	**Init. Calib. Times**	: 10:34	15:43
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.096	0.077	-	19.8	20	95	0
1,3,5-Trichlorobenzene	1.071	0.913	-	14.8	20	99	-.01
Hexachlorobutadiene	0.503	0.436	-	13.3	20	104	0
1,2,4-Trichlorobenzene	0.951	0.78	-	18	20	98	0
Naphthalene	2.062	1.582	-	23.3*	20	93	0
1,2,3-Trichlorobenzene	0.87	0.708	-	18.6	20	99	0

* Value outside of QC limits.

I:\Pest15\170719\15170719-01.d

Data File Name	**15170719-01.d**
Data File Path	**I:\Pest15\170719**
Operator	**PEST15:dm**
Date Acquired	**7/19/2017 16:51**
Acq. Method File	**PEST.M**
Sample Name	**pem15170719a01,42ee,,c**
Instrument Name	**Pest 15**

Name	Ret Time	Response	
4,4'-DDT	4.75	1308970873	% Breakdown
4,4'-DDE	4.08	5698300.986	
4,4'-DDD	4.54	6590583.471	0.93%
Endrin	4.48	795797521	% Breakdown
Endrin Aldehyde	4.95	8825137.491	
Endrin Ketone	5.45	14223020.8	2.81%
4,4'-DDT #2	5.43	497120656.6	% Breakdown
4,4'-DDE #2	4.77	1838218.412	
4,4'-DDD #2	5.20	2304218.282	0.83%
Endrin #2	5.13	261338187.2	% Breakdown
Endrin Aldehyde #2	5.52	3434775.223	
Endrin Ketone #2	6.08	5429961.002	3.28%

######### Data File Path **I:\Pest17\150918**

WG10214008-1,2,3,4,5
L1723679-01

ANALYTICAL REPORT

Lab Number:	L1724122
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:	07/19/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1724122
Report Date: 07/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1724122-01	OF-3	SOIL	1 HORIZON WAY, EVERETT, MA	07/12/17 10:00	07/12/17

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1724122
Report Date: 07/19/17

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.

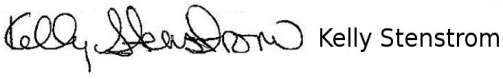
In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The 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:  Kelly Stenstrom

Title: Technical Director/Representative Date: 07/19/17

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1724122
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1724122-01
Client ID: OF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 07/12/17 10:00
Date Received: 07/12/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/17/17 19:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/19/17 09:00	07/19/17 11:32	EPA 3015	1,6010C	PS
Lead, TCLP	1.31		mg/l	0.500	--	1	07/19/17 09:00	07/19/17 11:32	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1724122
Report Date: 07/19/17

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: WG1023790-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/19/17 09:00	07/19/17 11:22	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	07/19/17 09:00	07/19/17 11:22	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/17/17 19:38

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1724122

Report Date: 07/19/17

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: WG1023790-2								
Arsenic, TCLP	100		-		75-125	-		20
Lead, TCLP	102		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1724122
Report Date: 07/19/17

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: WG1023790-3 QC Sample: L1724122-01 Client ID: OF-3												
Arsenic, TCLP	ND	1.2	1.22	102		-	-		75-125	-		20
Lead, TCLP	1.31	5.1	6.35	99		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1724122
Report Date: 07/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1023790-4 QC Sample: L1724122-01 Client ID: OF-3						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	1.31	1.40	mg/l	7		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1724122
Report Date: 07/19/17

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(*)
L1724122-01A	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		-
L1724122-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.3	Y	Absent		AS-CI(180),PB-CI(180)
L1724122-01X9	Tumble Vessel	A	NA		4.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1724122
Project Number:	171521.52	**Report Date:**	07/19/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1724122
Project Number:	171521.52	**Report Date:**	07/19/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1724122
Project Number:	171521.52	**Report Date:**	07/19/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 7/14/17

L1724122 7/17/17 WM

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: 7/12/17

ALPHA Job #: L1723679

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 WYNN EVERETT
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 meatals

*TCLP LEAD & ARSENIC

ANALYSIS

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

TOTAL # BOTTLES

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, ignit	Herbicides, Pesticides w/ Toxiphene	Conductivity, Flashpoint	Reactivity	*	Sample Specific Comments
23679-01	OF-3	7/12/17	1000	S	KS	☒	☒	☒	☒	☒	☒	☒	☒	
24122						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

	Container Type												
	Preservative												

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] AAI	7/12/17 1305	[signature] AAI	7/12/17 1305
[signature]	7/12/17 1807	[signature]	7/12/17 1807

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:	L1725185
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:	07/27/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1725185
Report Date: 07/27/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1725185-01	ELECTRIC VAULT	SOIL	1 HORIZON WAY, EVERETT, MA	07/21/17 09:15	07/21/17

Project Name: WYNN EVERETT
Lab Number: L1725185
Project Number: 171521.52
Report Date: 07/27/17

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: L1725185
Report Date: 07/27/17

Case Narrative

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

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

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

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

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

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

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

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

Volatile Organics

In reference to question H:

The WG1026083-5 Method Blank, associated with L1725185-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The initial calibration, associated with L1725185-01, did not meet the method required minimum response factor on the lowest calibration standard for acetone (0.0919) and 1,4-dioxane (0.0024), as well as the average response factor for acetone and 1,4-dioxane. The initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (139%), but within overall method criteria.

The continuing calibration standard, associated with L1725185-01, 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.

Pesticides

A copy of the Degradation Standards for 4,4'-DDT and Endrin breakdown products is included as an addendum.

In reference to question G:

L1725185-01: One or more of the target analytes did not achieve the requested CAM reporting limits.

Herbicides

In reference to question H:

The WG1024905-2/-3 LCS/LCSD recoveries, associated with L1725185-01, are below the acceptance criteria for dinoseb (5%/6%); however, the recoveries are due to a noted method interference caused by the hydrolysis

Project Name:	WYNN EVERETT	**Lab Number:**	L1725185
Project Number:	171521.52	**Report Date:**	07/27/17

Case Narrative (continued)

step of the extraction procedure. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

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: 07/27/17

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 07/26/17 20:30
Analyst: BD
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.4	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.91	--	1
1,2-Dichloropropane	ND		ug/kg	3.2	--	1
Dibromochloromethane	ND		ug/kg	0.91	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	--	1
Tetrachloroethene	ND		ug/kg	0.91	--	1
Chlorobenzene	ND		ug/kg	0.91	--	1
Trichlorofluoromethane	ND		ug/kg	3.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.91	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	--	1
Bromodichloromethane	ND		ug/kg	0.91	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.91	--	1
1,1-Dichloropropene	ND		ug/kg	3.6	--	1
Bromoform	ND		ug/kg	3.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	--	1
Benzene	ND		ug/kg	0.91	--	1
Toluene	ND		ug/kg	1.4	--	1
Ethylbenzene	ND		ug/kg	0.91	--	1
Chloromethane	ND		ug/kg	3.6	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	1.8	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.91	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1
Trichloroethene	ND		ug/kg	0.91	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1725185

Project Number: 171521.52 **Report Date:** 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01 Date Collected: 07/21/17 09:15

Client ID: ELECTRIC VAULT Date Received: 07/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	1.8	--	1
Xylenes, Total	ND		ug/kg	1.8	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	--	1
Dibromomethane	ND		ug/kg	3.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.6	--	1
Styrene	ND		ug/kg	1.8	--	1
Dichlorodifluoromethane	ND		ug/kg	9.1	--	1
Acetone	35		ug/kg	33	--	1
Carbon disulfide	ND		ug/kg	3.6	--	1
Methyl ethyl ketone	ND		ug/kg	9.1	--	1
Methyl isobutyl ketone	ND		ug/kg	9.1	--	1
2-Hexanone	ND		ug/kg	9.1	--	1
Bromochloromethane	ND		ug/kg	3.6	--	1
Tetrahydrofuran	ND		ug/kg	3.6	--	1
2,2-Dichloropropane	ND		ug/kg	4.5	--	1
1,2-Dibromoethane	ND		ug/kg	3.6	--	1
1,3-Dichloropropane	ND		ug/kg	3.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.91	--	1
Bromobenzene	ND		ug/kg	4.5	--	1
n-Butylbenzene	ND		ug/kg	0.91	--	1
sec-Butylbenzene	ND		ug/kg	0.91	--	1
tert-Butylbenzene	ND		ug/kg	3.6	--	1
o-Chlorotoluene	ND		ug/kg	3.6	--	1
p-Chlorotoluene	ND		ug/kg	3.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.6	--	1
Isopropylbenzene	ND		ug/kg	0.91	--	1
p-Isopropyltoluene	ND		ug/kg	0.91	--	1
Naphthalene	ND		ug/kg	3.6	--	1
n-Propylbenzene	ND		ug/kg	0.91	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.6	--	1

Project Name: WYNN EVERETT
Lab Number: L1725185
Project Number: 171521.52
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	4.5	--	1
Diisopropyl Ether	ND		ug/kg	3.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.6	--	1
1,4-Dioxane	ND		ug/kg	36	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	108		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/26/17 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1026083-5					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	2.3		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
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	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/26/17 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1026083-5					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
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	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/26/17 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1026083-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
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	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	40	--
Ethyl Acetate	ND		ug/kg	20	--
Freon-113	ND		ug/kg	20	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 07/26/17 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1026083-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

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: WG1026083-3 WG1026083-4								
Methylene chloride	87		87		70-130	0		20
1,1-Dichloroethane	93		92		70-130	1		20
Chloroform	95		94		70-130	1		20
Carbon tetrachloride	101		96		70-130	5		20
1,2-Dichloropropane	96		96		70-130	0		20
Dibromochloromethane	93		93		70-130	0		20
1,1,2-Trichloroethane	94		93		70-130	1		20
Tetrachloroethene	93		90		70-130	3		20
Chlorobenzene	93		93		70-130	0		20
Trichlorofluoromethane	93		89		70-130	4		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	98		96		70-130	2		20
Bromodichloromethane	97		98		70-130	1		20
trans-1,3-Dichloropropene	95		95		70-130	0		20
cis-1,3-Dichloropropene	90		91		70-130	1		20
1,1-Dichloropropene	93		90		70-130	3		20
Bromoform	91		94		70-130	3		20
1,1,2,2-Tetrachloroethane	92		96		70-130	4		20
Benzene	92		92		70-130	0		20
Toluene	95		94		70-130	1		20
Ethylbenzene	95		94		70-130	1		20
Chloromethane	93		89		70-130	4		20
Bromomethane	123		113		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1026083-3 WG1026083-4

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Vinyl chloride	98		96		70-130	2		20
Chloroethane	93		89		70-130	4		20
1,1-Dichloroethene	86		85		70-130	1		20
trans-1,2-Dichloroethene	88		88		70-130	0		20
Trichloroethene	95		92		70-130	3		20
1,2-Dichlorobenzene	95		93		70-130	2		20
1,3-Dichlorobenzene	96		96		70-130	0		20
1,4-Dichlorobenzene	92		92		70-130	0		20
Methyl tert butyl ether	**42**	Q	**43**	Q	70-130	2		20
p/m-Xylene	93		92		70-130	1		20
o-Xylene	92		91		70-130	1		20
cis-1,2-Dichloroethene	92		91		70-130	1		20
Dibromomethane	91		92		70-130	1		20
1,4-Dichlorobutane	104		105		70-130	1		20
1,2,3-Trichloropropane	96		96		70-130	0		20
Styrene	93		93		70-130	0		20
Dichlorodifluoromethane	80		77		70-130	4		20
Acetone	123		113		70-130	8		20
Carbon disulfide	128		**227**	Q	70-130	**56**	Q	20
Methyl ethyl ketone	105		107		70-130	2		20
Methyl isobutyl ketone	96		94		70-130	2		20
2-Hexanone	93		88		70-130	6		20
Ethyl methacrylate	98		98		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

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: WG1026083-3 WG1026083-4								
Acrylonitrile	99		94		70-130	5		20
Bromochloromethane	92		90		70-130	2		20
Tetrahydrofuran	108		108		70-130	0		20
2,2-Dichloropropane	93		91		70-130	2		20
1,2-Dibromoethane	93		93		70-130	0		20
1,3-Dichloropropane	95		95		70-130	0		20
1,1,1,2-Tetrachloroethane	94		92		70-130	2		20
Bromobenzene	96		96		70-130	0		20
n-Butylbenzene	100		99		70-130	1		20
sec-Butylbenzene	101		99		70-130	2		20
tert-Butylbenzene	100		99		70-130	1		20
o-Chlorotoluene	99		99		70-130	0		20
p-Chlorotoluene	100		101		70-130	1		20
1,2-Dibromo-3-chloropropane	88		86		70-130	2		20
Hexachlorobutadiene	98		97		70-130	1		20
Isopropylbenzene	99		100		70-130	1		20
p-Isopropyltoluene	101		99		70-130	2		20
Naphthalene	95		94		70-130	1		20
n-Propylbenzene	101		100		70-130	1		20
1,2,3-Trichlorobenzene	94		92		70-130	2		20
1,2,4-Trichlorobenzene	93		92		70-130	1		20
1,3,5-Trimethylbenzene	100		100		70-130	0		20
1,2,4-Trimethylbenzene	100		101		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

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: WG1026083-3 WG1026083-4								
trans-1,4-Dichloro-2-butene	91		95		70-130	4		20
Diethyl ether	87		84		70-130	4		20
Diisopropyl Ether	100		100		70-130	0		20
Ethyl-Tert-Butyl-Ether	81		80		70-130	1		20
Tertiary-Amyl Methyl Ether	86		85		70-130	1		20
1,4-Dioxane	105		100		70-130	5		20
2-Chloroethylvinyl ether	**5**	Q	**1**	Q	70-130	**146**	Q	20
Halothane	93		93		70-130	0		20
Ethyl Acetate	98		97		70-130	1		20
Freon-113	93		89		70-130	4		20
Vinyl acetate	89		91		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	107		109		70-130
Dibromofluoromethane	104		102		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 07/26/17 04:28
Analyst: RC
Percent Solids: 86%

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/23/17 04:13

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	110	--	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	790		ug/kg	110	--	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	200	--	1
Hexachlorobutadiene	ND		ug/kg	190	--	1
Hexachloroethane	ND		ug/kg	150	--	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	350		ug/kg	110	--	1
Benzo(a)pyrene	320		ug/kg	150	--	1
Benzo(b)fluoranthene	410		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1725185

Project Number: 171521.52 **Report Date:** 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01 Date Collected: 07/21/17 09:15

Client ID: ELECTRIC VAULT Date Received: 07/21/17

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(k)fluoranthene	140		ug/kg	110	--	1
Chrysene	340		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	190		ug/kg	110	--	1
Benzo(ghi)perylene	220		ug/kg	150	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	590		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	230		ug/kg	150	--	1
Pyrene	680		ug/kg	110	--	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	110	--	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	410	--	1
4-Nitrophenol	ND		ug/kg	270	--	1
2,4-Dinitrophenol	ND		ug/kg	910	--	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	270	--	1
2,4,5-Trichlorophenol	ND		ug/kg	190	--	1
Pyridine	ND		ug/kg	200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		30-130
Phenol-d6	73		30-130
Nitrobenzene-d5	73		30-130
2-Fluorobiphenyl	72		30-130
2,4,6-Tribromophenol	93		30-130
4-Terphenyl-d14	66		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 07/23/17 20:21
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 07/22/17 05:12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1024886-1					
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	140	--
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	170	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	140	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	140	--
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 EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 07/23/17 20:21
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 07/22/17 05:12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1024886-1					
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	140	--
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	170	--

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 07/23/17 20:21
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 07/22/17 05:12

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1024886-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		30-130
Phenol-d6	86		30-130
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	84		30-130
2,4,6-Tribromophenol	83		30-130
4-Terphenyl-d14	110		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1024886-2 WG1024886-3								
Acenaphthene	96		94		40-140	2		30
1,2,4-Trichlorobenzene	105		95		40-140	10		30
Hexachlorobenzene	102		96		40-140	6		30
Bis(2-chloroethyl)ether	104		98		40-140	6		30
2-Chloronaphthalene	98		98		40-140	0		30
1,2-Dichlorobenzene	98		91		40-140	7		30
1,3-Dichlorobenzene	95		91		40-140	4		30
1,4-Dichlorobenzene	94		90		40-140	4		30
3,3'-Dichlorobenzidine	63		59		40-140	7		30
2,4-Dinitrotoluene	103		99		40-140	4		30
2,6-Dinitrotoluene	102		101		40-140	1		30
Azobenzene	95		94		40-140	1		30
Fluoranthene	108		101		40-140	7		30
4-Bromophenyl phenyl ether	98		96		40-140	2		30
Bis(2-chloroisopropyl)ether	104		97		40-140	7		30
Bis(2-chloroethoxy)methane	108		102		40-140	6		30
Hexachlorobutadiene	93		92		40-140	1		30
Hexachloroethane	95		91		40-140	4		30
Isophorone	114		107		40-140	6		30
Naphthalene	100		96		40-140	4		30
Nitrobenzene	104		96		40-140	8		30
Bis(2-ethylhexyl)phthalate	107		104		40-140	3		30
Butyl benzyl phthalate	117		109		40-140	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1024886-2 WG1024886-3								
Di-n-butylphthalate	107		100		40-140	7		30
Di-n-octylphthalate	112		108		40-140	4		30
Diethyl phthalate	102		97		40-140	5		30
Dimethyl phthalate	106		104		40-140	2		30
Benzo(a)anthracene	99		95		40-140	4		30
Benzo(a)pyrene	97		95		40-140	2		30
Benzo(b)fluoranthene	99		96		40-140	3		30
Benzo(k)fluoranthene	97		97		40-140	0		30
Chrysene	100		98		40-140	2		30
Acenaphthylene	104		100		40-140	4		30
Anthracene	104		100		40-140	4		30
Benzo(ghi)perylene	102		100		40-140	2		30
Fluorene	100		97		40-140	3		30
Phenanthrene	99		94		40-140	5		30
Dibenzo(a,h)anthracene	99		97		40-140	2		30
Indeno(1,2,3-cd)pyrene	102		99		40-140	3		30
Pyrene	108		102		40-140	6		30
Aniline	78		72		40-140	8		30
4-Chloroaniline	76		74		40-140	3		30
Dibenzofuran	100		96		40-140	4		30
2-Methylnaphthalene	101		100		40-140	1		30
Acetophenone	118		107		40-140	10		30
2,4,6-Trichlorophenol	100		102		30-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1024886-2 WG1024886-3								
2-Chlorophenol	108		99		30-130	9		30
2,4-Dichlorophenol	118		105		30-130	12		30
2,4-Dimethylphenol	118		114		30-130	3		30
2-Nitrophenol	105		100		30-130	5		30
4-Nitrophenol	110		104		30-130	6		30
2,4-Dinitrophenol	69		64		30-130	8		30
Pentachlorophenol	86		80		30-130	7		30
Phenol	111		102		30-130	8		30
2-Methylphenol	116		110		30-130	5		30
3-Methylphenol/4-Methylphenol	118		107		30-130	10		30
2,4,5-Trichlorophenol	110		105		30-130	5		30
Pyridine	85		71		30-130	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	111		103		30-130
Phenol-d6	118		110		30-130
Nitrobenzene-d5	113		105		30-130
2-Fluorobiphenyl	108		101		30-130
2,4,6-Tribromophenol	96		94		30-130
4-Terphenyl-d14	113		100		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 1,8015C(M)
Analytical Date: 07/24/17 17:44
Analyst: MEO
Percent Solids: 86%

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/23/17 10:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	238000		ug/kg	38200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015C(M)
Analytical Date: 07/24/17 15:34
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 07/23/17 10:41

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1025046-1					
TPH	ND		ug/kg	31900	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1025046-2								
TPH	77		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	75				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 07/26/17 06:30
Analyst: HT
Percent Solids: 86%

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/23/17 08:07
Cleanup Method: EPA 3665A
Cleanup Date: 07/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	--	1	A
Aroclor 1221	ND		ug/kg	37.5	--	1	A
Aroclor 1232	ND		ug/kg	37.5	--	1	A
Aroclor 1242	ND		ug/kg	37.5	--	1	A
Aroclor 1248	ND		ug/kg	37.5	--	1	A
Aroclor 1254	39.2	P	ug/kg	37.5	--	1	B
Aroclor 1260	ND		ug/kg	37.5	--	1	B
Aroclor 1262	ND		ug/kg	37.5	--	1	A
Aroclor 1268	ND		ug/kg	37.5	--	1	A
PCBs, Total	39.2		ug/kg	37.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	**27**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 07/23/17 17:02
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 07/22/17 17:24
Cleanup Method: EPA 3665A
Cleanup Date: 07/23/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/23/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01 Batch: WG1025014-1						
Aroclor 1016	ND		ug/kg	32.2	--	A
Aroclor 1221	ND		ug/kg	32.2	--	A
Aroclor 1232	ND		ug/kg	32.2	--	A
Aroclor 1242	ND		ug/kg	32.2	--	A
Aroclor 1248	ND		ug/kg	32.2	--	A
Aroclor 1254	ND		ug/kg	32.2	--	A
Aroclor 1260	ND		ug/kg	32.2	--	A
Aroclor 1262	ND		ug/kg	32.2	--	A
Aroclor 1268	ND		ug/kg	32.2	--	A
PCBs, Total	ND		ug/kg	32.2	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01 Batch: WG1025014-2 WG1025014-3									
Aroclor 1016	77		81		40-140	5		30	A
Aroclor 1260	76		79		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		86		30-150	A
Decachlorobiphenyl	66		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		87		30-150	B
Decachlorobiphenyl	69		71		30-150	B

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 07/26/17 17:31
Analyst: CD
Percent Solids: 86%

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/23/17 09:37
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	9.08	--	1	A
Lindane	ND		ug/kg	3.03	--	1	A
Alpha-BHC	ND		ug/kg	3.78	--	1	A
Beta-BHC	ND		ug/kg	9.08	--	1	A
Heptachlor	ND		ug/kg	4.54	--	1	A
Aldrin	ND		ug/kg	9.08	--	1	A
Heptachlor epoxide	ND		ug/kg	17.0	--	1	A
Endrin	ND		ug/kg	3.78	--	1	A
Endrin ketone	ND		ug/kg	9.08	--	1	A
Dieldrin	ND		ug/kg	5.68	--	1	A
4,4'-DDE	ND		ug/kg	9.08	--	1	A
4,4'-DDD	ND		ug/kg	9.08	--	1	A
4,4'-DDT	ND		ug/kg	17.0	--	1	A
Endosulfan I	ND		ug/kg	9.08	--	1	A
Endosulfan II	ND		ug/kg	9.08	--	1	A
Endosulfan sulfate	ND		ug/kg	3.78	--	1	A
Methoxychlor	ND		ug/kg	17.0	--	1	A
Chlordane	ND		ug/kg	73.8	--	1	A
Hexachlorobenzene	ND		ug/kg	9.08	--	1	A
Toxaphene	ND		ug/kg	170	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	**153**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA

Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 07/25/17 19:00
Analyst: SL
Percent Solids: 86%
Methylation Date: 07/23/17 07:20

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 07/22/17 07:36

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	87		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 07/24/17 17:30
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 07/22/17 07:32

Methylation Date: 07/23/17 07:20

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01 Batch: WG1024905-1						
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
Dinoseb	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	63		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 07/24/17 18:31
Analyst: CD

Extraction Method: EPA 3546
Extraction Date: 07/23/17 09:37
Cleanup Method: EPA 3620B
Cleanup Date: 07/24/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01 Batch: WG1025040-1						
Delta-BHC	ND		ug/kg	7.71	--	A
Lindane	ND		ug/kg	2.57	--	A
Alpha-BHC	ND		ug/kg	3.21	--	A
Beta-BHC	ND		ug/kg	7.71	--	A
Heptachlor	ND		ug/kg	3.85	--	A
Aldrin	ND		ug/kg	7.71	--	A
Heptachlor epoxide	ND		ug/kg	14.4	--	A
Endrin	ND		ug/kg	3.21	--	A
Endrin ketone	ND		ug/kg	7.71	--	A
Dieldrin	ND		ug/kg	4.82	--	A
4,4'-DDE	ND		ug/kg	7.71	--	A
4,4'-DDD	ND		ug/kg	7.71	--	A
4,4'-DDT	ND		ug/kg	14.4	--	A
Endosulfan I	ND		ug/kg	7.71	--	A
Endosulfan II	ND		ug/kg	7.71	--	A
Endosulfan sulfate	ND		ug/kg	3.21	--	A
Methoxychlor	ND		ug/kg	14.4	--	A
Chlordane	ND		ug/kg	62.6	--	A
Hexachlorobenzene	ND		ug/kg	7.71	--	A
Toxaphene	ND		ug/kg	144	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	**160**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	85		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01 Batch: WG1024905-2 WG1024905-3									
MCPP	99		109		40-140	10		30	A
MCPA	88		109		40-140	21		30	A
Dalapon	60		66		40-140	10		30	A
Dicamba	77		83		40-140	8		30	A
Dichloroprop	92		104		40-140	12		30	A
2,4-D	88		94		40-140	7		30	A
2,4-DB	81		89		40-140	9		30	A
2,4,5-T	79		86		40-140	8		30	A
2,4,5-TP (Silvex)	70		76		40-140	8		30	A
Dinoseb	**5**	Q	**6**	Q	40-140	25		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	70		77		30-150	A
DCAA	71		77		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1025040-2 WG1025040-3									
Delta-BHC	100		94		40-140	6		30	A
Lindane	97		93		40-140	4		30	A
Alpha-BHC	105		102		40-140	3		30	A
Beta-BHC	91		86		40-140	6		30	A
Heptachlor	103		99		40-140	4		30	A
Aldrin	112		108		40-140	4		30	A
Heptachlor epoxide	93		90		40-140	3		30	A
Endrin	119		111		40-140	7		30	A
Endrin ketone	97		78		40-140	22		30	A
Dieldrin	122		114		40-140	7		30	A
4,4'-DDE	127		121		40-140	5		30	A
4,4'-DDD	121		116		40-140	4		30	A
4,4'-DDT	136		125		40-140	8		30	A
Endosulfan I	111		105		40-140	6		30	A
Endosulfan II	107		97		40-140	10		30	A
Endosulfan sulfate	72		61		40-140	17		30	A
Methoxychlor	121		109		40-140	10		30	A
Hexachlorobenzene	96		94		40-140	2		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1025040-2 WG1025040-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		90		30-150	B
Decachlorobiphenyl	**157**	Q	**153**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		89		30-150	A
Decachlorobiphenyl	89		102		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1025040-4 WG1025040-5									
Toxaphene	130		133		40-140	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		92		30-150	B
Decachlorobiphenyl	**158**	Q	**159**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		90		30-150	A
Decachlorobiphenyl	99		89		30-150	A

METALS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Percent Solids: 86%

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	34.2		mg/kg	2.30	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Arsenic, Total	417		mg/kg	0.460	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Barium, Total	83.1		mg/kg	0.460	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.230	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Cadmium, Total	6.23		mg/kg	0.460	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Chromium, Total	10.8		mg/kg	0.460	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Lead, Total	2570		mg/kg	2.30	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Mercury, Total	7.75		mg/kg	0.751	--	10	07/22/17 10:00	07/24/17 13:40	EPA 7471B	97,7471B	MG
Nickel, Total	8.48		mg/kg	1.15	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Selenium, Total	37.3		mg/kg	2.30	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Silver, Total	3.71		mg/kg	0.460	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Thallium, Total	3.97		mg/kg	2.30	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Vanadium, Total	16.2		mg/kg	0.460	--	1	07/24/17 21:58	07/25/17 11:44	EPA 3050B	97,6010C	PS
Zinc, Total	1510		mg/kg	11.5	--	5	07/24/17 21:58	07/25/17 14:08	EPA 3050B	97,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

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: WG1024899-1										
Mercury, Total	ND		mg/kg	0.083	--	1	07/22/17 10:00	07/24/17 13:03	97,7471B	MG

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: WG1025322-1										
Antimony, Total	ND		mg/kg	2.00	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Arsenic, Total	ND		mg/kg	0.400	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Barium, Total	ND		mg/kg	0.400	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Chromium, Total	ND		mg/kg	0.400	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Lead, Total	ND		mg/kg	2.00	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Nickel, Total	ND		mg/kg	1.00	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Selenium, Total	ND		mg/kg	2.00	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Silver, Total	ND		mg/kg	0.400	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Thallium, Total	ND		mg/kg	2.00	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Vanadium, Total	ND		mg/kg	0.400	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS
Zinc, Total	ND		mg/kg	2.00	--	1	07/24/17 21:58	07/25/17 10:51	97,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1024899-2 WG1024899-3 SRM Lot Number: D093-540								
Mercury, Total	88		105		72-168	18		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1025322-2 WG1025322-3 SRM Lot Number: D093-540								
Antimony, Total	187		185		2-204	1		30
Arsenic, Total	96		106		70-130	10		30
Barium, Total	113		88		83-117	25		30
Beryllium, Total	115		94		83-117	20		30
Cadmium, Total	96		97		83-117	1		30
Chromium, Total	117		95		80-120	21		30
Lead, Total	94		93		82-117	1		30
Nickel, Total	96		96		83-117	0		30
Selenium, Total	96		98		78-122	2		30
Silver, Total	112		92		76-124	20		30
Thallium, Total	96		94		79-121	2		30
Vanadium, Total	112		90		78-122	22		30
Zinc, Total	94		94		83-117	0		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
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	07/23/17 21:11	1,1030	JC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

SAMPLE RESULTS

Lab ID: L1725185-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil
Date Collected: 07/21/17 09:15
Date Received: 07/21/17
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	620		umhos/cm	10	--	1	-	07/21/17 23:20	1,9050A	AS
Solids, Total	86.2		%	0.100	NA	1	-	07/22/17 09:53	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	07/21/17 22:19	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	07/25/17 14:20	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	07/22/17 02:20	07/22/17 03:37	1,7.3	JD
Sulfide, Reactive	ND		mg/kg	10	--	1	07/22/17 02:20	07/22/17 04:27	1,7.3	JD

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725185
Report Date: 07/27/17

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: WG1024853-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	07/22/17 02:20	07/22/17 04:24	1,7.3	JD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1024854-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	07/22/17 02:20	07/22/17 03:35	1,7.3	JD

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725185

Report Date: 07/27/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1024835-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1024841-1								
Specific Conductance	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1024853-2								
Sulfide, Reactive	108		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1024854-2								
Cyanide, Reactive	109		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1025611-1								
Flash Point	100		-		96-104	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1024841-2 QC Sample: L1725185-01 Client ID: ELECTRIC VAULT						
Specific Conductance @ 25 C	620	620	umhos/cm	0		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725185
Report Date: 07/27/17

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(*)
L1725185-01A	Vial MeOH preserved	A	NA		4.6	Y	Absent		MCP-8260HLW-10(14)
L1725185-01B	Vial water preserved	A	NA		4.6	Y	Absent	22-JUL-17 00:48	MCP-8260HLW-10(14)
L1725185-01C	Vial water preserved	A	NA		4.6	Y	Absent	22-JUL-17 00:48	MCP-8260HLW-10(14)
L1725185-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.6	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)
L1725185-01E	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1725185-01F	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),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 EVERETT	**Lab Number:**	L1725185
Project Number:	171521.52	**Report Date:**	07/27/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1725185
Project Number:	171521.52	**Report Date:**	07/27/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1725185
Project Number:	171521.52	**Report Date:**	07/27/17

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.

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 7/25/17

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: 7-21-17

ALPHA Job #: L1725185

Project Information

Project Name: ~~Wynn Boston Harbor~~ WYNN EVERETT
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.0~~171521.52
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: 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 meatals

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 ignt.	Herbicides, Pesticides w/ Toxiphene	Conductivity, Flashpoint	Reactivity						Sample Specific Comments
25185-01	Electric Vault	7/21/17	0915	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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

TOTAL # BOTTLES

Container Type												
Preservative												

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dean	7/21/2017 @ 14:15	[illegible] AAL	7/21/17 14:15
[illegible] AAL 7/21/17	18:10	[illegible]	7/21/17 1810

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)

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: 7-21-17

ALPHA Job #: L1725185

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 meatals

ANALYSIS

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

TOTAL # BOTTLES

Sample Specific Comments

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/ Toxiphene	Conductivity, Flashpoint	Reactivity							
25185-01	Electric Vault	7/21/17	0915	S	MDD	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
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						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

Container Type																			
Preservative																			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dean	7/21/2017 @ 14:15	[illegible] AAL	7/21/17 14:15
[illegible] AAL 7/21/17		[illegible]	7/21/17 1810

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

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1725185
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1026083-5	**Lab File ID**	: V04170726B07
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 07/26/17 12:23

Client Sample No.	Lab Sample ID	Analysis Date
WG1026083-3LCS	WG1026083-3	07/26/17 10:39
WG1026083-4LCSD	WG1026083-4	07/26/17 11:05
ELECTRIC VAULT	L1725185-01	07/26/17 20:30

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1725185	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 07/26/17 10:39	
Lab File ID	: V04170726B03	Init. Calib. Date(s)	: 05/17/17	05/17/17
Sample No	: WG1026083-2	Init. Calib. Times	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	103	0
Dichlorodifluoromethane	0.277	0.22	-	20.6*	20	82	0
Chloromethane	0.444	0.412	-	7.2	20	97	0
Vinyl chloride	0.327	0.321	-	1.8	20	102	0
Bromomethane	20	24.664	-	-23.3*	20	140	0
Chloroethane	0.184	0.171	-	7.1	20	96	0
Trichlorofluoromethane	0.422	0.394	-	6.6	20	95	0
Ethyl ether	0.14	0.122	-	12.9	20	87	0
1,1-Dichloroethene	0.27	0.233	-	13.7	20	91	0
Carbon disulfide	1.177	1.507	-	-28*	20	124	0
Freon-113	0.25	0.232	-	7.2	20	92	0
Acrolein	0.048	0.048	-	0	20	100	0
Methylene chloride	0.334	0.291	-	12.9	20	92	0
Acetone	0.068	0.083	-	-22.1*	20	119	0
trans-1,2-Dichloroethene	0.304	0.269	-	11.5	20	91	0
Methyl acetate	0.183	0.176	-	3.8	20	94	0
Methyl tert-butyl ether	0.811	0.339	-	58.2*	20	42	0
tert-Butyl alcohol	0.03	0.029	-	3.3	20	95	0
Diisopropyl ether	1.146	1.151	-	-0.4	20	101	0
1,1-Dichloroethane	0.604	0.564	-	6.6	20	96	0
Halothane	0.232	0.215	-	7.3	20	96	0
Acrylonitrile	0.092	0.091	-	1.1	20	92	0
Ethyl tert-butyl ether	1.034	0.84	-	18.8	20	82	0
Vinyl acetate	0.641	0.571	-	10.9	20	86	0
cis-1,2-Dichloroethene	0.334	0.306	-	8.4	20	97	0
2,2-Dichloropropane	0.443	0.413	-	6.8	20	97	0
Bromochloromethane	0.168	0.154	-	8.3	20	90	0
Cyclohexane	0.501	0.506	-	-1	20	101	0
Chloroform	0.548	0.519	-	5.3	20	98	0
Ethyl acetate	0.272	0.266	-	2.2	20	97	0
Carbon tetrachloride	0.4	0.403	-	-0.8	20	103	0
Tetrahydrofuran	0.089	0.096	-	-7.9	20	113	0
Dibromofluoromethane	0.281	0.292	-	-3.9	20	105	0
1,1,1-Trichloroethane	0.466	0.454	-	2.6	20	101	0
2-Butanone	0.117	0.123	-	-5.1	20	96	0
1,1-Dichloropropene	0.383	0.357	-	6.8	20	93	0
Benzene	1.146	1.053	-	8.1	20	98	0
tert-Amyl methyl ether	0.768	0.661	-	13.9	20	88	0
1,2-Dichloroethane-d4	0.258	0.279	-	-8.1	20	112	0
1,2-Dichloroethane	0.416	0.403	-	3.1	20	99	0
Methyl cyclohexane	0.4	0.392	-	2	20	102	0
Trichloroethene	0.311	0.297	-	4.5	20	98	0
Dibromomethane	0.184	0.168	-	8.7	20	92	0
1,2-Dichloropropane	0.332	0.321	-	3.3	20	98	0
2-Chloroethyl vinyl ether	0.04529	0.00204	-	95.5*	20	5	.06

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1725185	
Project Name	: WYNN EVERETT	Project Number	: 171521.52	
Instrument ID	: VOA104	Calibration Date	: 07/26/17 10:39	
Lab File ID	: V04170726B03	Init. Calib. Date(s)	: 05/17/17	05/17/17
Sample No	: WG1026083-2	Init. Calib. Times	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.409	0.398	-	2.7	20	99	0
1,4-Dioxane	0.00259	0.00272	-	-5	20	104	0
cis-1,3-Dichloropropene	0.497	0.449	-	9.7	20	93	0
Chlorobenzene-d5	1	1	-	0	20	98	0
Toluene-d8	1.163	1.236	-	-6.3	20	102	0
Toluene	0.869	0.824	-	5.2	20	93	0
4-Methyl-2-pentanone	0.129	0.123	-	4.7	20	92	0
Tetrachloroethene	0.425	0.395	-	7.1	20	91	0
trans-1,3-Dichloropropene	0.5	0.476	-	4.8	20	91	0
Ethyl methacrylate	0.393	0.385	-	2	20	90	0
1,1,2-Trichloroethane	0.262	0.245	-	6.5	20	88	0
Chlorodibromomethane	0.419	0.392	-	6.4	20	90	0
1,3-Dichloropropane	0.506	0.481	-	4.9	20	91	0
1,2-Dibromoethane	0.337	0.313	-	7.1	20	88	0
2-Hexanone	0.211	0.196	-	7.1	20	89	0
Chlorobenzene	1.066	0.993	-	6.8	20	92	0
Ethylbenzene	1.671	1.595	-	4.5	20	94	0
1,1,1,2-Tetrachloroethane	0.403	0.376	-	6.7	20	91	0
p/m Xylene	0.677	0.63	-	6.9	20	90	0
o Xylene	0.645	0.595	-	7.8	20	90	0
Styrene	1.077	1.002	-	7	20	89	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	91	0
Bromoform	0.51	0.467	-	8.4	20	85	0
Isopropylbenzene	3.302	3.275	-	0.8	20	94	0
4-Bromofluorobenzene	0.879	0.943	-	-7.3	20	100	0
Bromobenzene	0.91	0.87	-	4.4	20	89	0
n-Propylbenzene	3.664	3.69	-	-0.7	20	94	0
1,4-Dichlorobutane	1.127	1.176	-	-4.3	20	97	0
1,1,2,2-Tetrachloroethane	0.738	0.682	-	7.6	20	85	0
4-Ethyltoluene	3.182	3.259	-	-2.4	20	96	0
2-Chlorotoluene	2.226	2.199	-	1.2	20	94	0
1,3,5-Trimethylbenzene	2.765	2.78	-	-0.5	20	95	0
1,2,3-Trichloropropane	0.543	0.52	-	4.2	20	87	0
trans-1,4-Dichloro-2-buten	0.203	0.185	-	8.9	20	83	0
4-Chlorotoluene	2.242	2.231	-	0.5	20	94	0
tert-Butylbenzene	2.324	2.323	-	0	20	94	0
1,2,4-Trimethylbenzene	2.763	2.777	-	-0.5	20	93	0
sec-Butylbenzene	3.453	3.498	-	-1.3	20	94	0
p-Isopropyltoluene	2.971	2.999	-	-0.9	20	95	0
1,3-Dichlorobenzene	1.665	1.593	-	4.3	20	90	0
1,4-Dichlorobenzene	1.696	1.567	-	7.6	20	88	0
p-Diethylbenzene	1.741	1.751	-	-0.6	20	95	0
n-Butylbenzene	2.591	2.577	-	0.5	20	94	0
1,2-Dichlorobenzene	1.549	1.473	-	4.9	20	88	0
1,2,4,5-Tetramethylbenzene	2.85	2.975	-	-4.4	20	99	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1725185	
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52	
Instrument ID	: VOA104	**Calibration Date**	: 07/26/17 10:39	
Lab File ID	: V04170726B03	**Init. Calib. Date(s)**	: 05/17/17	05/17/17
Sample No	: WG1026083-2	**Init. Calib. Times**	: 12:32	16:28
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.127	0.111	-	12.6	20	85	0
1,3,5-Trichlorobenzene	1.234	1.202	-	2.6	20	91	0
Hexachlorobutadiene	0.579	0.567	-	2.1	20	93	0
1,2,4-Trichlorobenzene	1.144	1.06	-	7.3	20	87	0
Naphthalene	2.459	2.335	-	5	20	88	0
1,2,3-Trichlorobenzene	1.06	0.996	-	6	20	87	0

*** Value outside of QC limits.**

I:\Pest18\170726a\18170726a-01.d

Data File Name	**18170726a-01.d**
Data File Path	**I:\Pest18\170726a**
Operator	**PEST18:dm**
Date Acquired	**7/26/2017 10:36**
Acq. Method File	**PEST.M**
Sample Name	**deg pp7939**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
Endrin	4.47	353959740.7	% Breakdown
Endrin Aldehyde	4.94	1865433.45	
Endrin Ketone	5.43	6396460.85	2.28%
4,4'-DDT	4.75	596637434.22	% Breakdown
4,4'-DDE	4.08	1426143.37	
4,4'-DDD	4.54	4449793.084	0.98%
Endrin #2	5.13	270886400.5	% Breakdown
Endrin Aldehyde #2	5.52	1785410.5	
Endrin Ketone #2	6.07	3318232.152	1.85%
4,4'-DDT #2	5.42	445182775.8	% Breakdown
4,4'-DDE #2	4.78	1339933.5	
4,4'-DDD #2	5.21	3565092.942	1.09%

L1725185-01

I:\Pest18\170724a\18170724a-01.d

Data File Name	**18170724a-01.d**
Data File Path	**I:\Pest18\170724a**
Operator	**PEST18:keg**
Date Acquired	**7/24/2017 11:28**
Acq. Method File	**PEST.M**
Sample Name	**pem18170724a01,4**
Instrument Name	**Pest 18**

Name	Ret Time	Response	
Endrin	4.48	323550477.2	% Breakdown
Endrin Aldehyde	4.95	1479718.56	
Endrin Ketone	5.44	2850951.938	1.32%
4,4'-DDT	4.76	564014727.61	% Breakdown
4,4'-DDE	4.09	1338705.91	
4,4'-DDD	4.55	944699.979	0.40%
Endrin #2	5.14	258926396.9	% Breakdown
Endrin Aldehyde #2	5.53	1584351.885	
Endrin Ketone #2	6.08	2167853.659	1.43%
4,4'-DDT #2	5.43	436738954.6	% Breakdown
4,4'-DDE #2	4.79	1083441.541	
4,4'-DDD #2	5.22	1791739.913	0.65%

WG1025040-1,-2,-3,-4,-5

ANALYTICAL REPORT

Lab Number:	L1725632
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:	07/31/17

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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: L1725632
Report Date: 07/31/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1725632-01	ELECTRIC VAULT	SOIL	1 HORIZON WAY, EVERETT, MA	07/21/17 09:15	07/21/17

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725632
Report Date: 07/31/17

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:**	L1725632
Project Number:	171521.52	**Report Date:**	07/31/17

Case Narrative (continued)

TCLP Metals

The WG1027341-3 MS recovery, performed on L1725632-01, is outside the acceptance criteria for arsenic (126%). A post digestion spike was performed and was within acceptance criteria.

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: 07/31/17

METALS

Project Name: WYNN EVERETT
Lab Number: L1725632
Project Number: 171521.52
Report Date: 07/31/17

SAMPLE RESULTS

Lab ID: L1725632-01
Client ID: ELECTRIC VAULT
Sample Location: 1 HORIZON WAY, EVERETT, MA
Matrix: Soil

Date Collected: 07/21/17 09:15
Date Received: 07/21/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 07/27/17 20:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/31/17 11:50	07/31/17 13:42	EPA 3015	1,6010C	PS
Lead, TCLP	10.3		mg/l	0.500	--	1	07/31/17 11:50	07/31/17 13:42	EPA 3015	1,6010C	PS
Mercury, TCLP	ND		mg/l	0.0010	--	1	07/29/17 10:40	07/29/17 14:17	EPA 7470A	1,7470A	MG
Selenium, TCLP	ND		mg/l	0.500	--	1	07/31/17 11:50	07/31/17 13:42	EPA 3015	1,6010C	PS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1725632
Report Date: 07/31/17

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: WG1027017-1										
Mercury, TCLP	ND		mg/l	0.0010	--	1	07/29/17 10:40	07/29/17 14:13	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 07/27/17 20:36

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: WG1027341-1										
Arsenic, TCLP	ND		mg/l	1.00	--	1	07/31/17 11:50	07/31/17 13:32	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	--	1	07/31/17 11:50	07/31/17 13:32	1,6010C	PS
Selenium, TCLP	ND		mg/l	0.500	--	1	07/31/17 11:50	07/31/17 13:32	1,6010C	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/27/17 20:36

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1725632

Report Date: 07/31/17

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: WG1027017-2								
Mercury, TCLP	97		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1027341-2								
Arsenic, TCLP	101		-		75-125	-		20
Lead, TCLP	100		-		75-125	-		20
Selenium, TCLP	107		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725632
Report Date: 07/31/17

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: WG1027017-3 QC Sample: L1725632-01 Client ID: ELECTRIC VAULT												
Mercury, TCLP	ND	0.025	0.0230	92		-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1027341-3 QC Sample: L1725632-01 Client ID: ELECTRIC VAULT												
Arsenic, TCLP	ND	1.2	1.51	**126**	Q	-	-		75-125	-		20
Lead, TCLP	10.3	5.1	15.4	100		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.31	109		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725632
Report Date: 07/31/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1027017-4 QC Sample: L1725632-01 Client ID: ELECTRIC VAULT						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1027341-4 QC Sample: L1725632-01 Client ID: ELECTRIC VAULT						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	10.3	10.0	mg/l	3		20
Selenium, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1725632
Report Date: 07/31/17

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(*)
L1725632-01A	Glass 500ml/16oz unpreserved	A	NA		4.6	Y	Absent		-
L1725632-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.6	Y	Absent		AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180)
L1725632-01X9	Tumble Vessel	A	NA		4.6	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1725632
Project Number:	171521.52	**Report Date:**	07/31/17

GLOSSARY

Acronyms

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

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

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1725632
Project Number:	171521.52	**Report Date:**	07/31/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte 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:**	L1725632
Project Number:	171521.52	**Report Date:**	07/31/17

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: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **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.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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.

NH 7/25/17

JK 7/27/17 L1725632

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: 7-21-17

ALPHA Job #: ~~L1725185~~

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~~ WYNN EVERETT
Project Location: 1 Horizon Way, Everett MA
Project #: ~~01.01~~71521.52
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
TCLP 20x rule applies for MCP-14 meatals

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

TCLP-AS,HG,PB,SE

MCP-14 Metals; VOCs 8260; SVOCs 8270 with Pyrene; PCBs; TPH, ph light; Herbicides, Pesticides w/ Toxaphene; Conductivity, Flashpoint; Reactivity

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

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
25632-01	~~25185-8~~ Electric Vault	7/21/17	0915	S	MDD

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO. 01-01(I) (rev. 8-JAN-12)

Container Type															
Preservative															

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dacey	7/21/2017 @ 1615	John Sullivan DAL	7/21/17 14:15
John Sullivan DAL 7/21/17	18:15	Gunnar Ans	7/21/17 1810

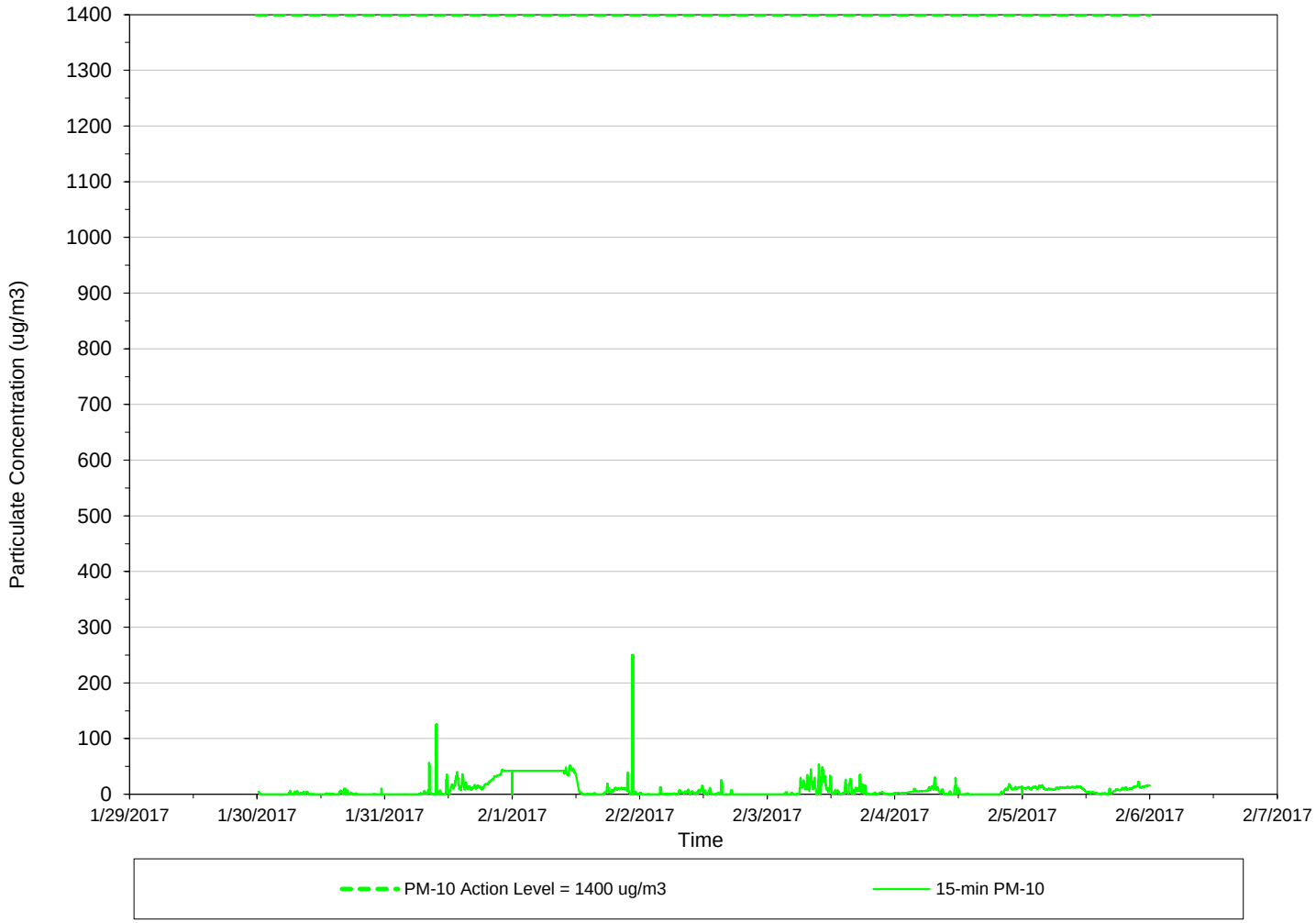
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Appendix F - AirLogics Weekly Reports

Feb06,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 9.30

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
1/30/2017	10.84
1/31/2017	125.93
2/1/2017	250.25
2/2/2017	25.39
2/3/2017	54.03
2/4/2017	30.41
2/5/2017	22.71

Wind Summary Statistics	
CALM	47%
UW	0%
UW/CW	0%
CW	0%
CW/DW	0%
DW	22%
DW/CW	7%
CW/UW	25%
TOTAL	100%

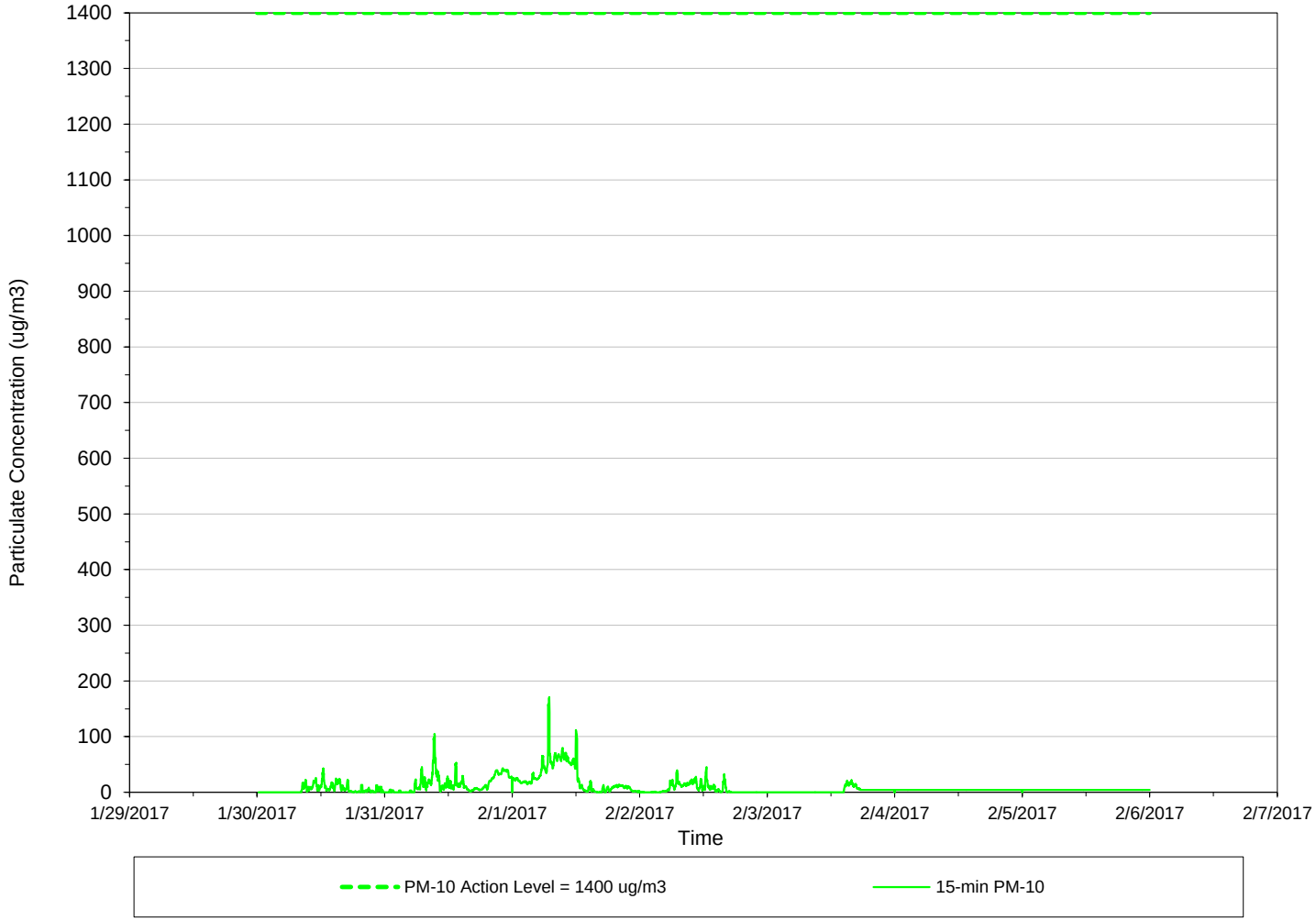
AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Filename: C:\Users\matthew.dion\Documents\Everett 2016\Air Logics\Reports\STA1_WEEKLYFeb17.xls

Feb06,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 9.20

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
1/30/2017	42.61
1/31/2017	104.79
2/1/2017	170.19
2/2/2017	45.28
2/3/2017	21.59
2/4/2017	4.33
2/5/2017	4.33

Wind Summary Statistics	
CALM	47%
UW	3%
UW/CW	2%
CW	14%
CW/DW	6%
DW	29%
DW/CW	0%
CW/UW	0%
TOTAL	100%

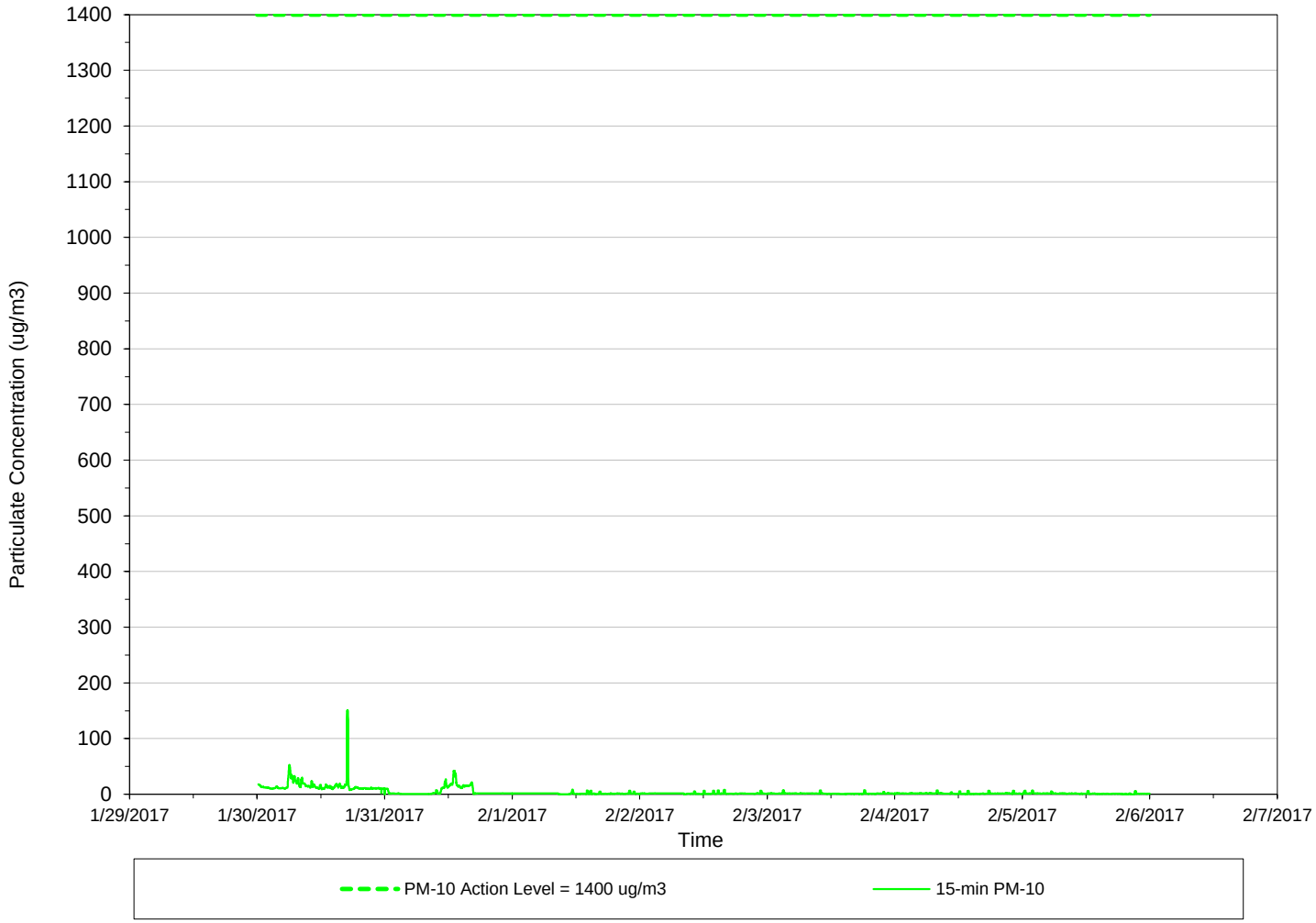
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AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Feb06,2017

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 = 4.14

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
1/30/2017	150.72
1/31/2017	42.29
2/1/2017	8.62
2/2/2017	7.84
2/3/2017	7.23
2/4/2017	7.01
2/5/2017	6.68

Wind Summary Statistics	
CALM	47%
UW	38%
UW/CW	0%
CW	0%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	15%
TOTAL	100%

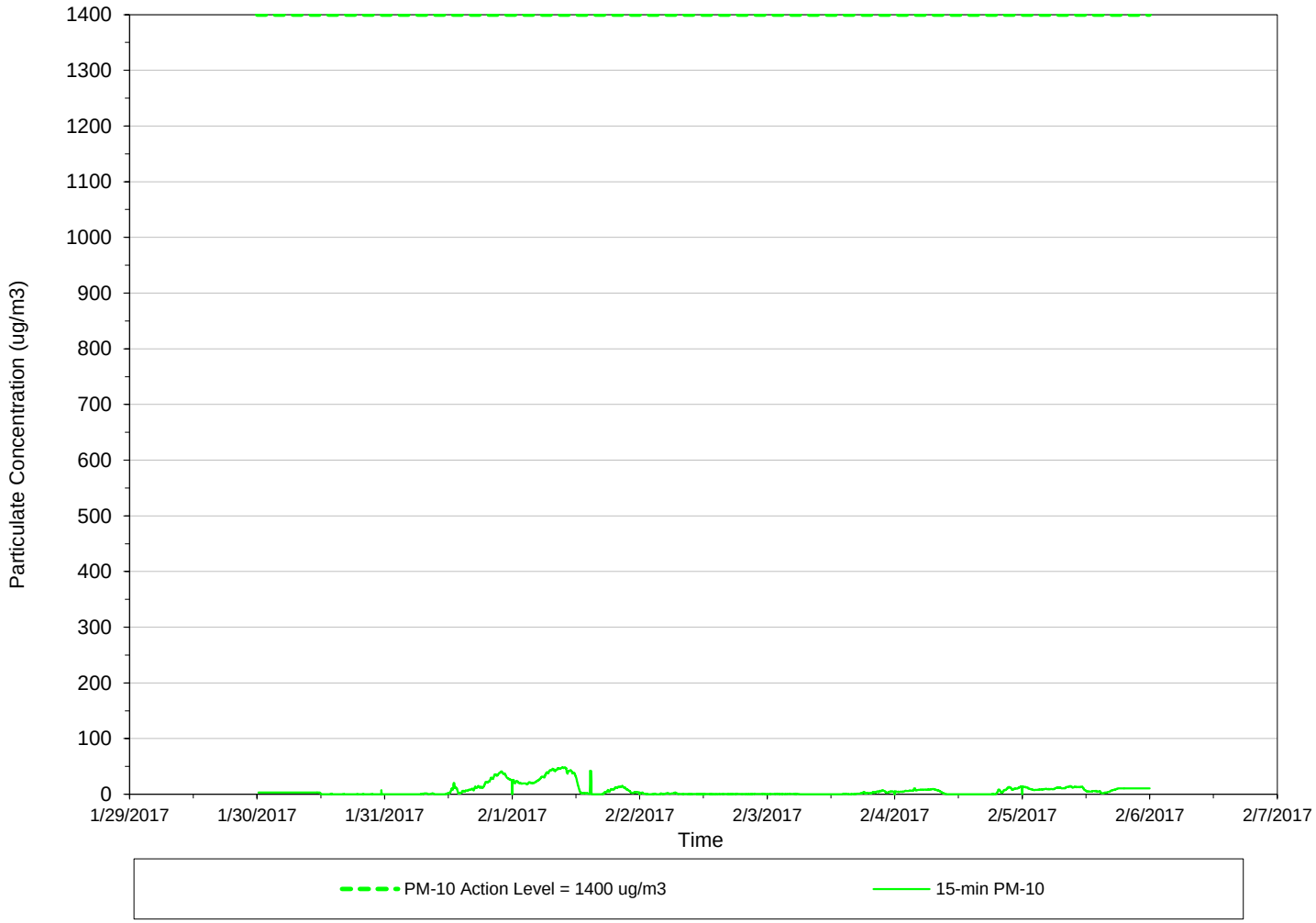
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AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Feb06,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.59

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
1/30/2017	7.39
1/31/2017	41.11
2/1/2017	48.37
2/2/2017	3.33
2/3/2017	7.68
2/4/2017	14.47
2/5/2017	14.78

Wind Summary Statistics	
CALM	47%
UW	0%
UW/CW	0%
CW	24%
CW/DW	0%
DW	1%
DW/CW	0%
CW/UW	29%
TOTAL	100%

Filename: J:\170,000-179,999\171521\171521-52.MPS\AirLogics Weekly Reports\WEEKLY_02052017\STA4_WEEKLYFeb17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

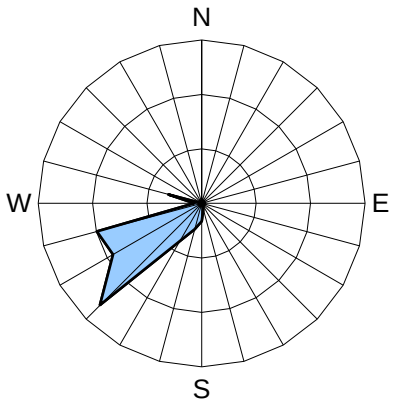


Figure 1. Wind rose for the period 1/30/2017 through 2/5/2017

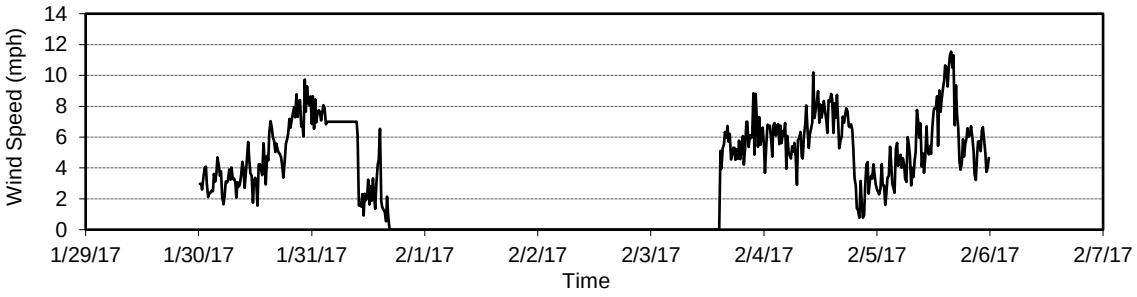


Figure 2. Wind speed for the period 1/30/2017 through 2/5/2017

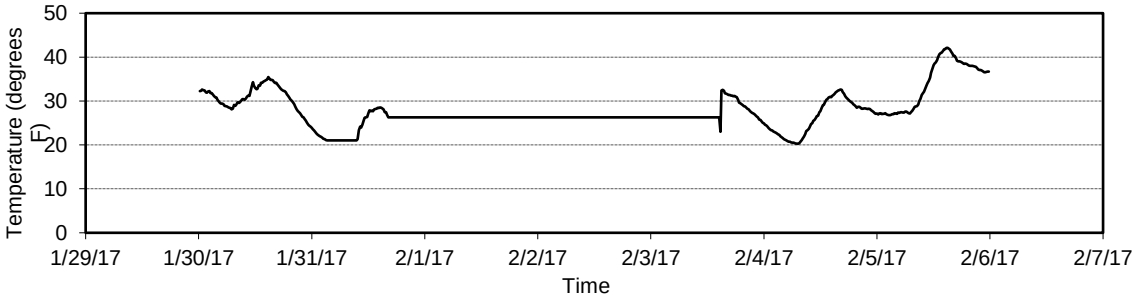


Figure 3. Temperature for the period 1/30/2017 through 2/5/2017

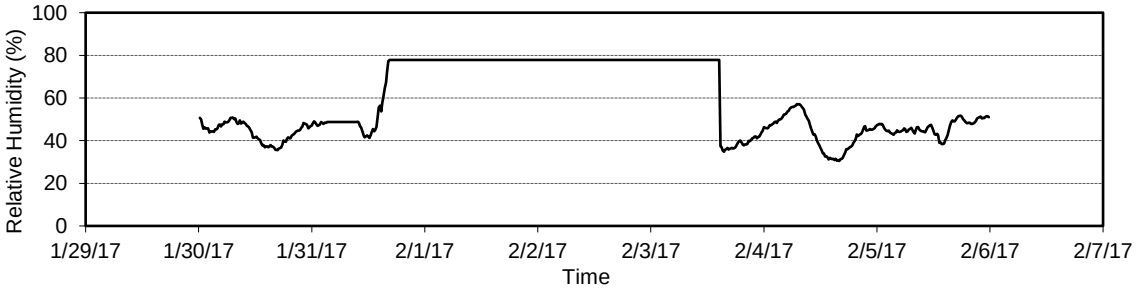


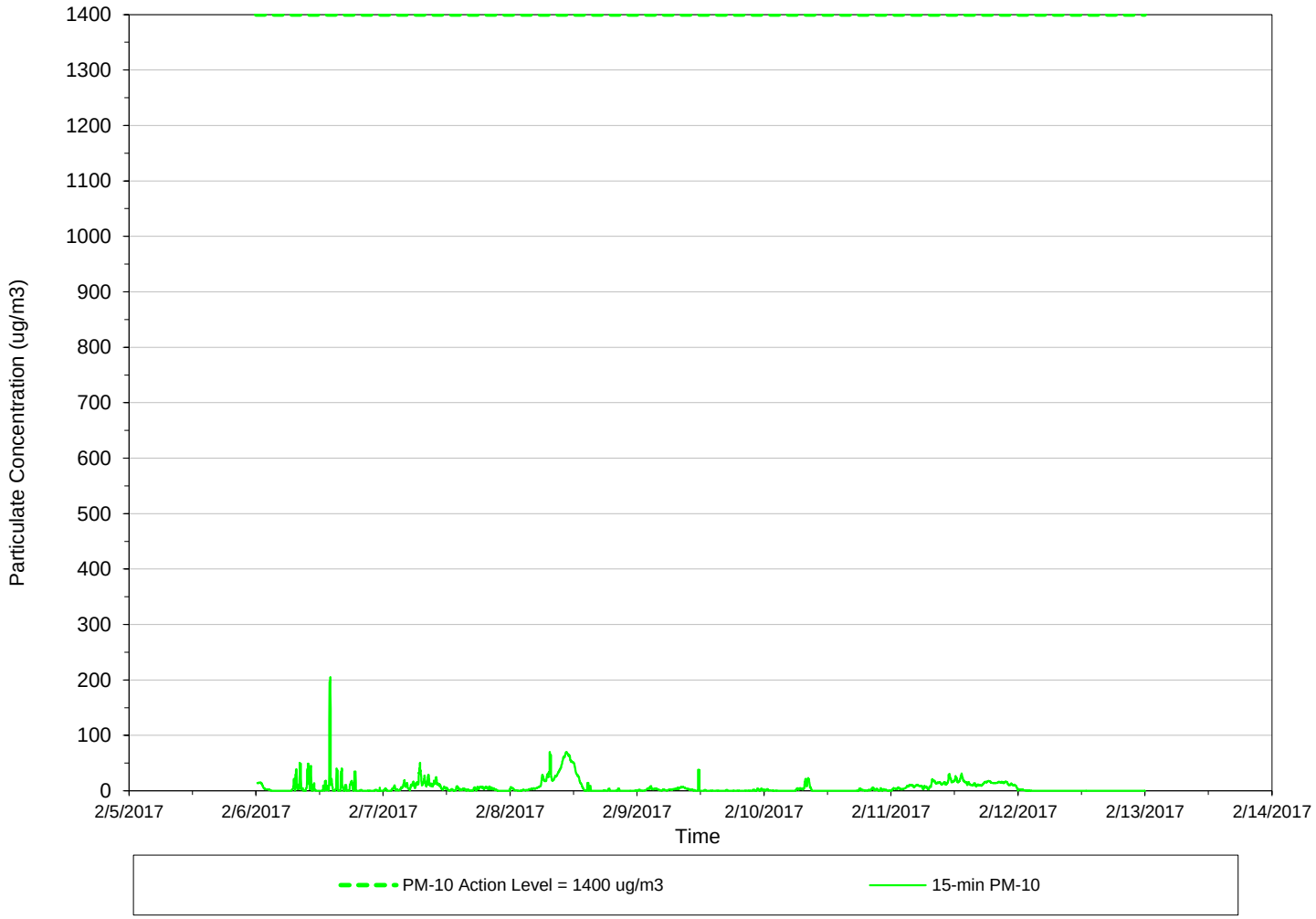
Figure 4. Relative humidity for the period 1/30/2017 through 2/5/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Feb13,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.24

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/6/2017	204.61
2/7/2017	50.78
2/8/2017	70.35
2/9/2017	37.93
2/10/2017	23.50
2/11/2017	31.28
2/12/2017	3.34

Wind Summary Statistics	
CALM	9%
UW	10%
UW/CW	0%
CW	0%
CW/DW	1%
DW	13%
DW/CW	5%
CW/UW	62%
TOTAL	100%

Filename: J:\170,000-179,999\171521\171521-52.MPS\AirLogics Weekly Reports\WEEKLY_02122017\STA1_WEEKLYFeb17.xls

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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Feb13,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.48

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/6/2017	6.87
2/7/2017	4.33
2/8/2017	101.45
2/9/2017	24.19
2/10/2017	32.39
2/11/2017	82.89
2/12/2017	15.51

Wind Summary Statistics	
CALM	9%
UW	3%
UW/CW	0%
CW	7%
CW/DW	5%
DW	74%
DW/CW	2%
CW/UW	0%
TOTAL	100%

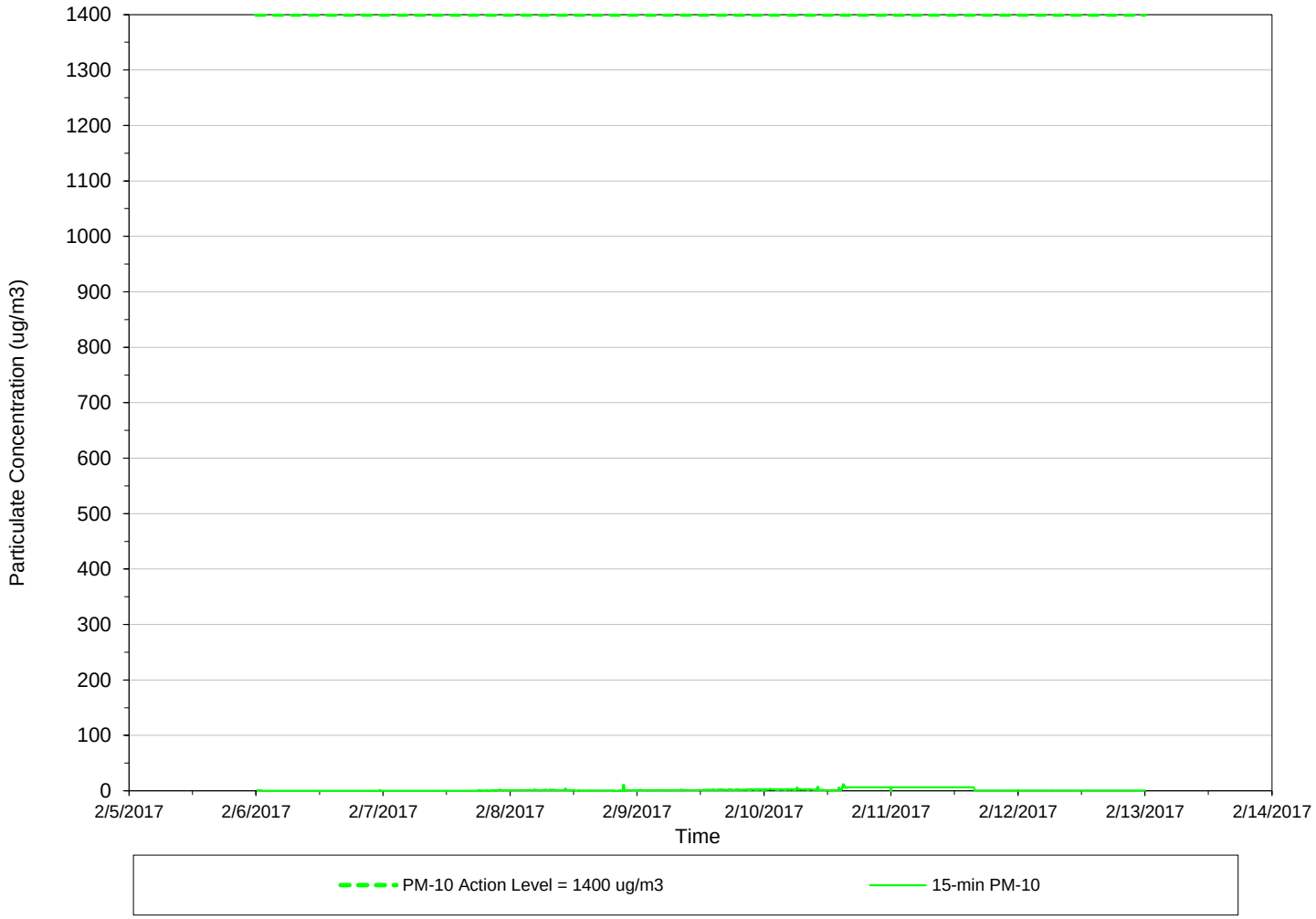
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Feb13,2017

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 = 1.64

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/6/2017	1.91
2/7/2017	1.45
2/8/2017	10.49
2/9/2017	3.13
2/10/2017	12.07
2/11/2017	6.23
2/12/2017	0.61

Wind Summary Statistics	
CALM	9%
UW	24%
UW/CW	0%
CW	0%
CW/DW	0%
DW	13%
DW/CW	0%
CW/UW	54%
TOTAL	100%

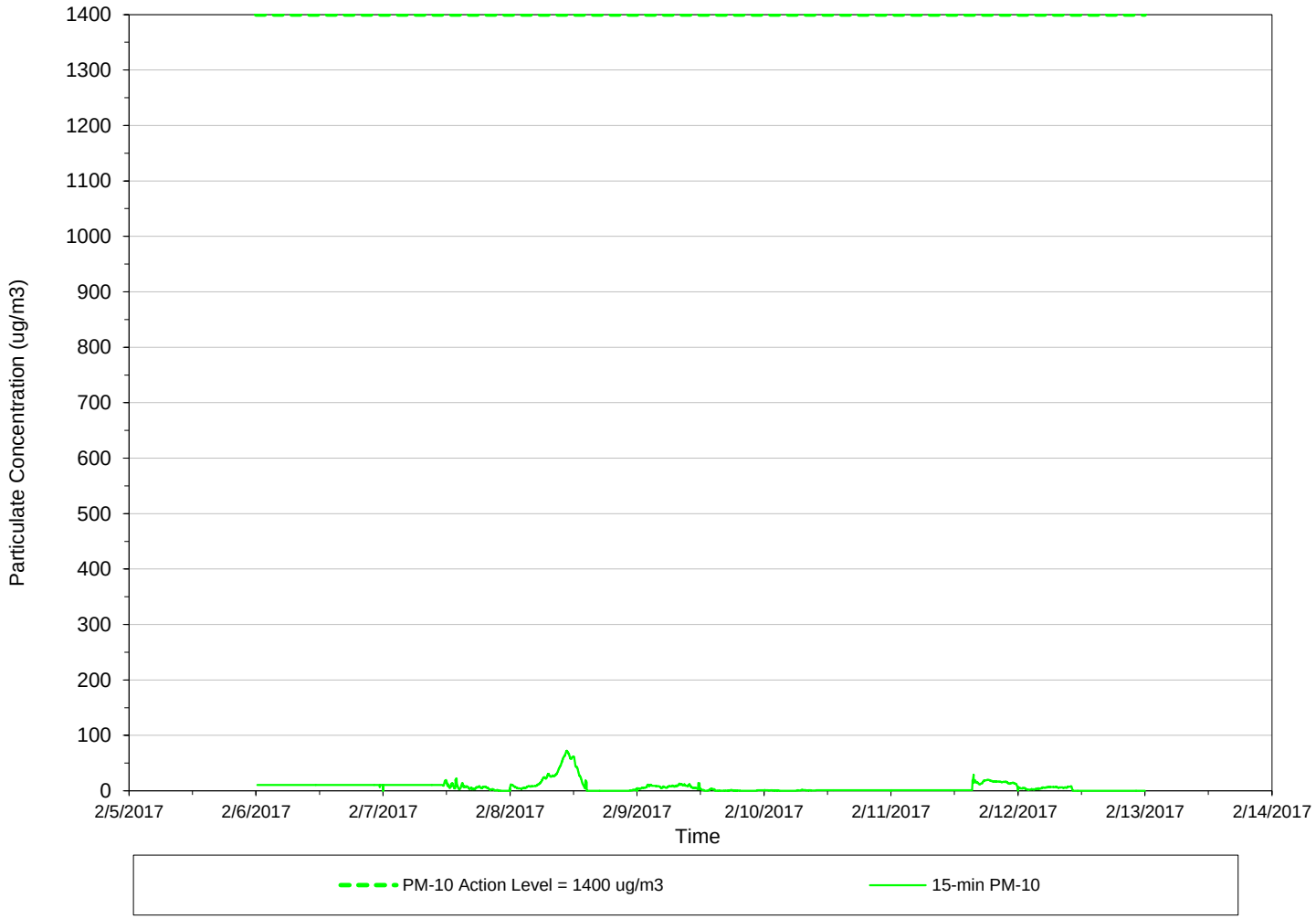
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PERIMETER AIR MONITORING SYSTEMS
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Feb13,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.82

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/6/2017	10.50
2/7/2017	22.16
2/8/2017	72.11
2/9/2017	14.36
2/10/2017	1.57
2/11/2017	28.98
2/12/2017	8.37

Wind Summary Statistics	
CALM	9%
UW	0%
UW/CW	0%
CW	22%
CW/DW	1%
DW	2%
DW/CW	0%
CW/UW	65%
TOTAL	100%

Filename: J:\170,000-179,999\171521\171521-52.MPS\AirLogics Weekly Reports\WEEKLY_02122017\STA4_WEEKLYFeb17.xls

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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

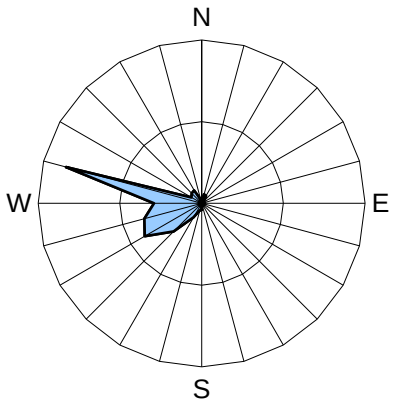


Figure 1. Wind rose for the period 2/6/2017 through 2/12/2017

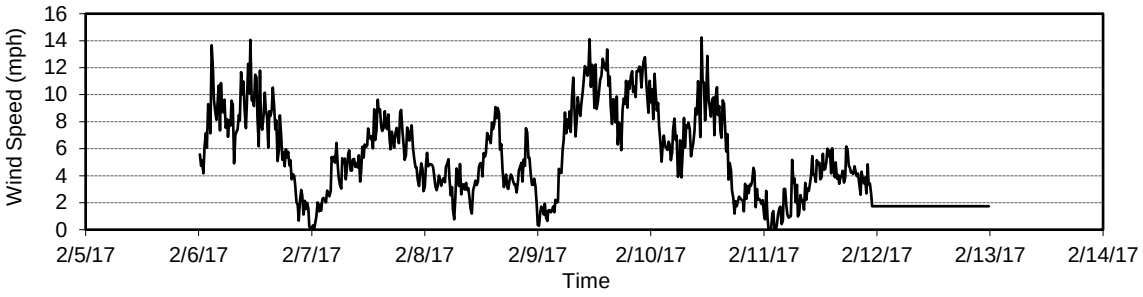


Figure 2. Wind speed for the period 2/6/2017 through 2/12/2017

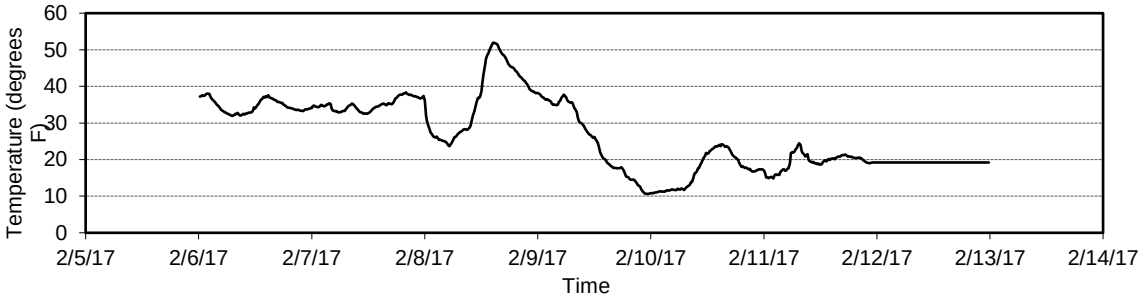


Figure 3. Temperature for the period 2/6/2017 through 2/12/2017

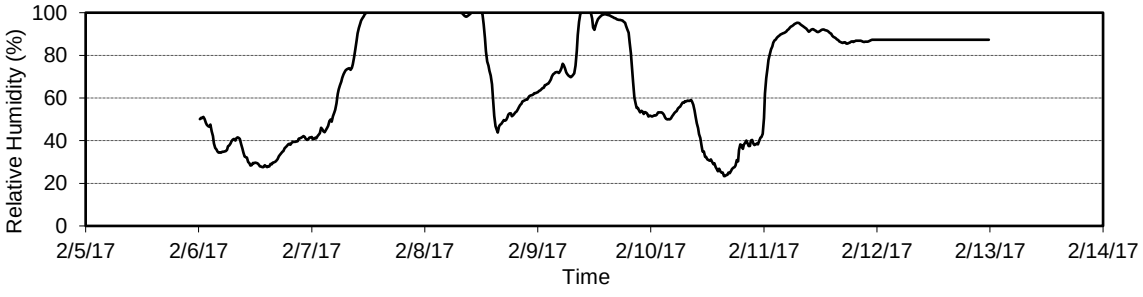


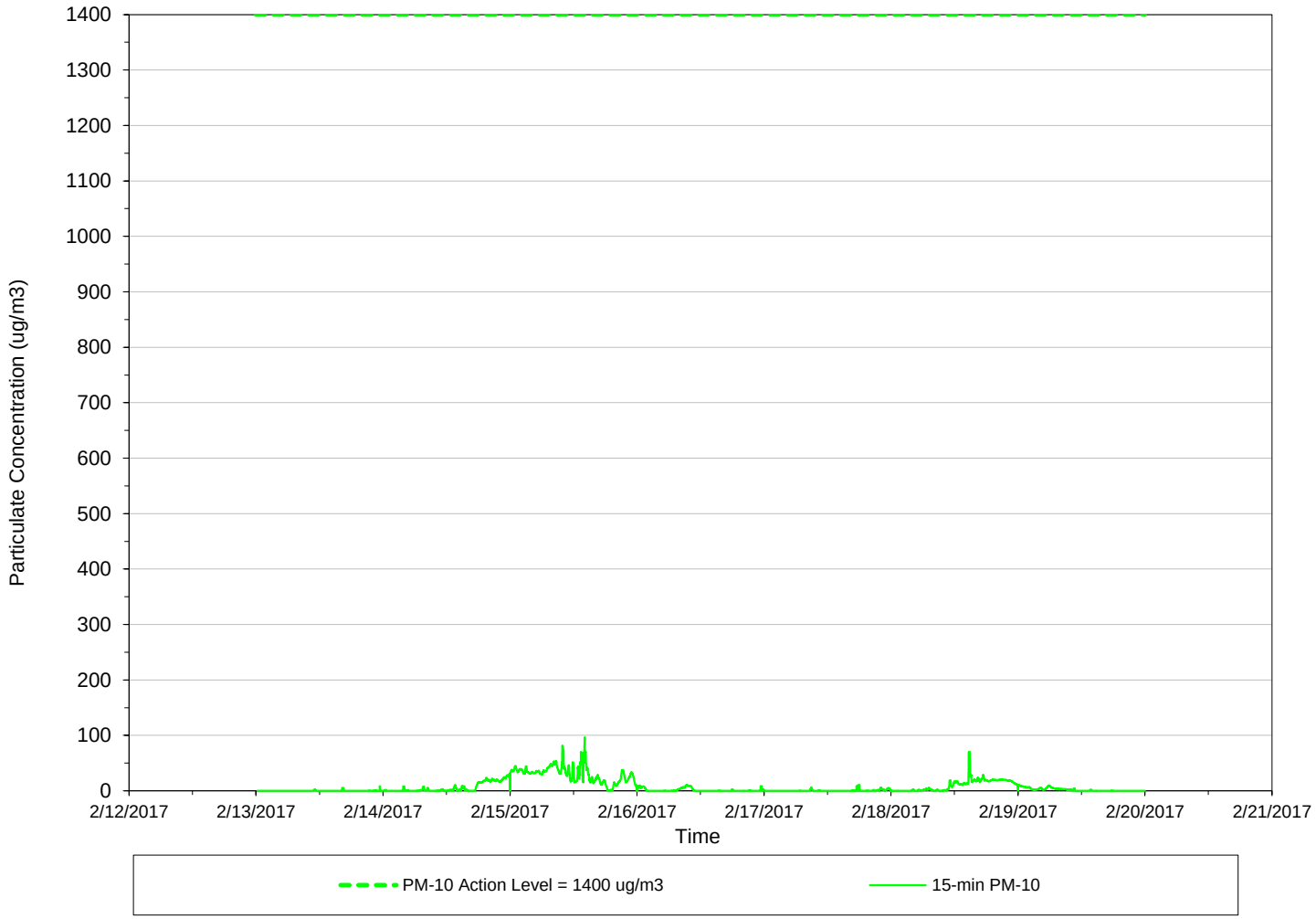
Figure 4. Relative humidity for the period 2/6/2017 through 2/12/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Feb20,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 7.29

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/13/2017	8.50
2/14/2017	31.91
2/15/2017	96.16
2/16/2017	10.98
2/17/2017	10.87
2/18/2017	69.52
2/19/2017	10.92

Wind Summary Statistics	
CALM	30%
UW	1%
UW/CW	0%
CW	0%
CW/DW	0%
DW	24%
DW/CW	4%
CW/UW	40%
TOTAL	100%

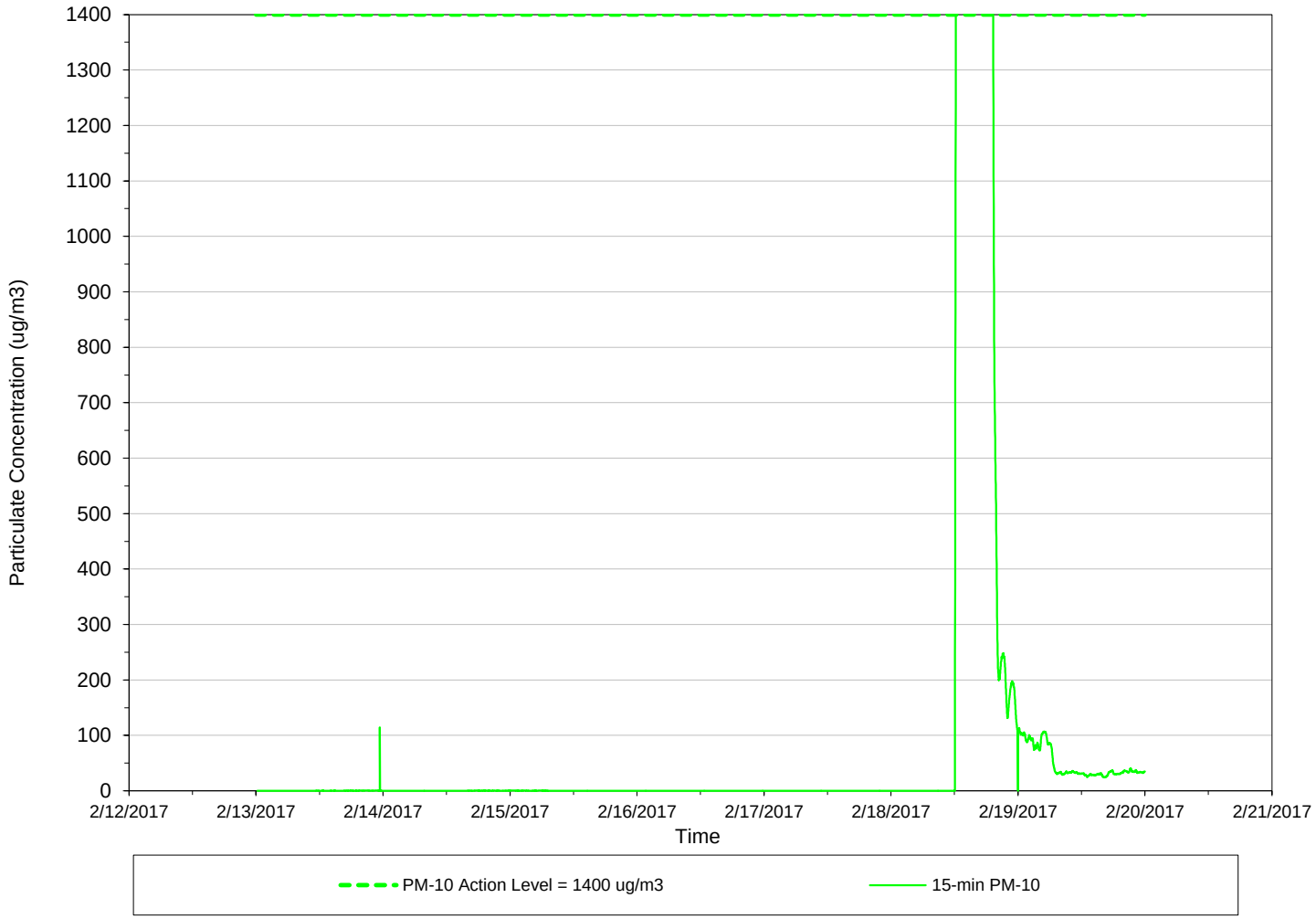
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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Feb20,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 98.14

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/13/2017	114.48
2/14/2017	0.53
2/15/2017	0.61
2/16/2017	0.00
2/17/2017	0.00
2/18/2017	1981.03
2/19/2017	113.03

Wind Summary Statistics	
CALM	30%
UW	3%
UW/CW	1%
CW	18%
CW/DW	5%
DW	43%
DW/CW	0%
CW/UW	0%
TOTAL	100%

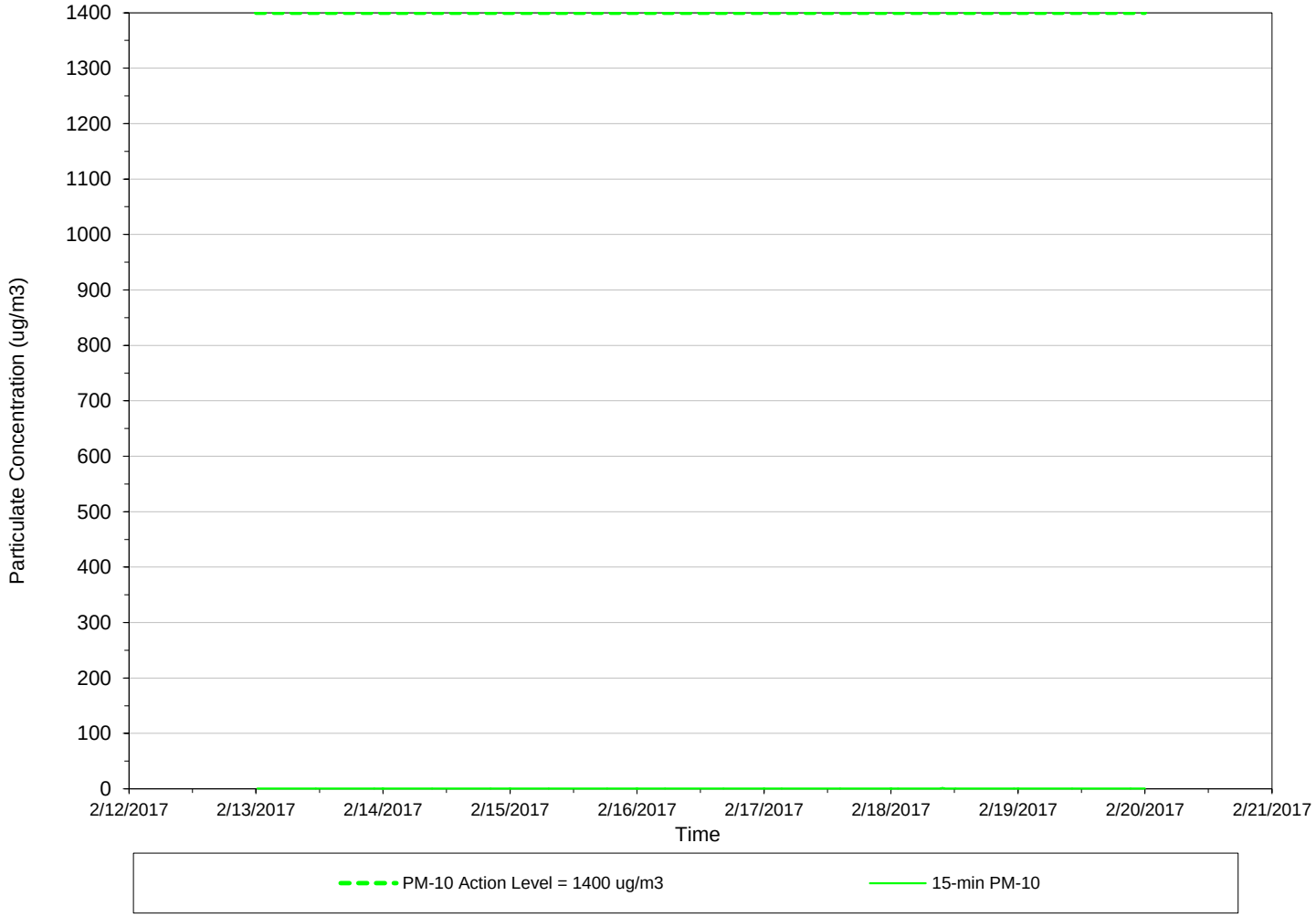
Filename: J:\170,000-179,999\171521\171521-52.MPS\AirLogics Weekly Reports\WEEKLY_02192017\STA2_WEEKLYFeb17.xls

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PERIMETER AIR MONITORING SYSTEMS
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Feb20,2017

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 = 0.61

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/13/2017	0.61
2/14/2017	0.61
2/15/2017	0.61
2/16/2017	0.61
2/17/2017	0.61
2/18/2017	1.68
2/19/2017	0.61

Wind Summary Statistics	
CALM	30%
UW	35%
UW/CW	0%
CW	0%
CW/DW	0%
DW	2%
DW/CW	0%
CW/UW	33%
TOTAL	100%

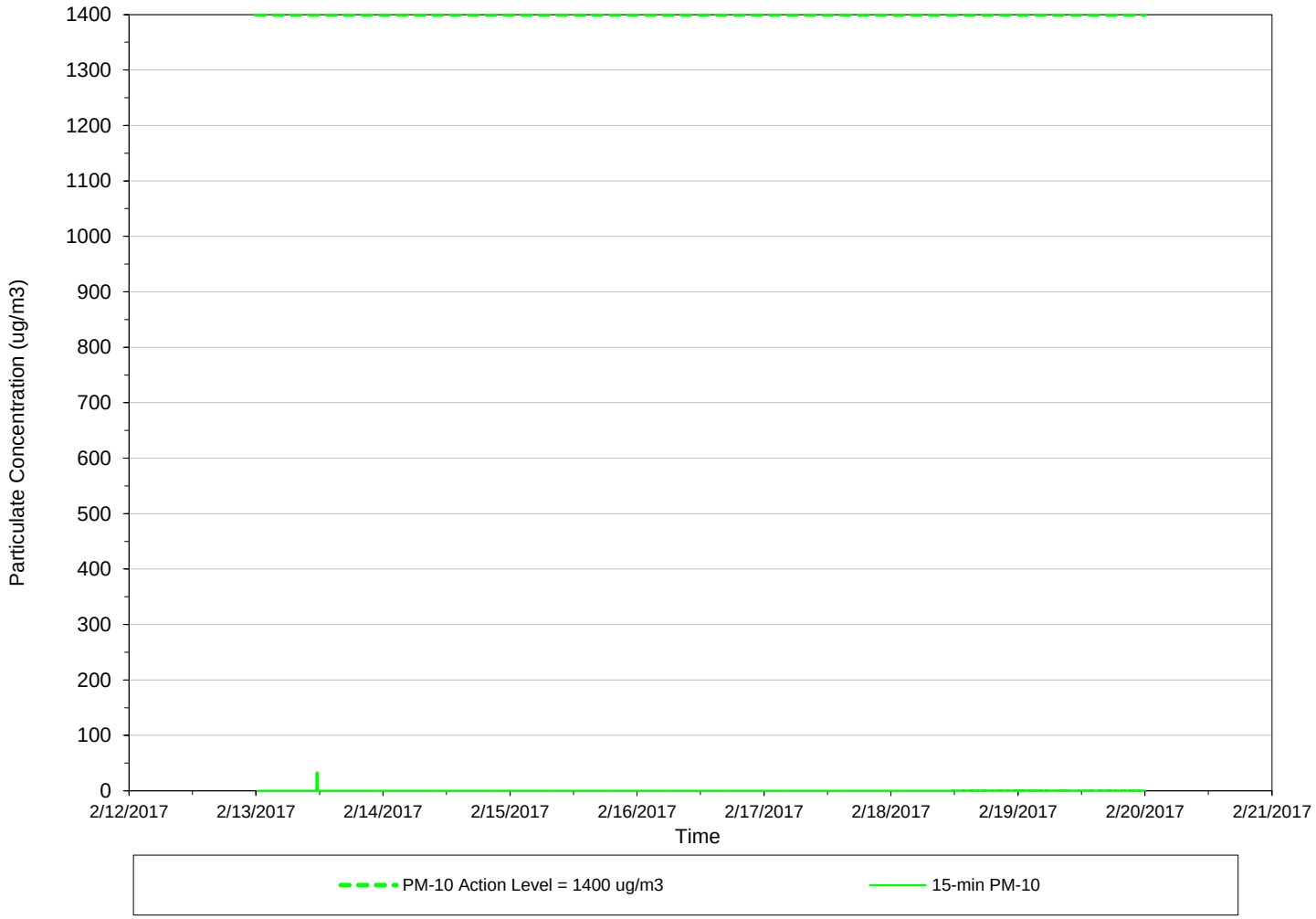
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PERIMETER AIR MONITORING SYSTEMS
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Feb20,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.18

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/13/2017	32.62
2/14/2017	0.00
2/15/2017	0.00
2/16/2017	0.00
2/17/2017	0.00
2/18/2017	0.94
2/19/2017	1.21

Wind Summary Statistics	
CALM	30%
UW	0%
UW/CW	0%
CW	25%
CW/DW	0%
DW	2%
DW/CW	0%
CW/UW	42%
TOTAL	100%

Filename: J:\170,000-179,999\171521\171521-52.MPS\AirLogics Weekly Reports\WEEKLY_02192017\STA4_WEEKLYFeb17.xls

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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

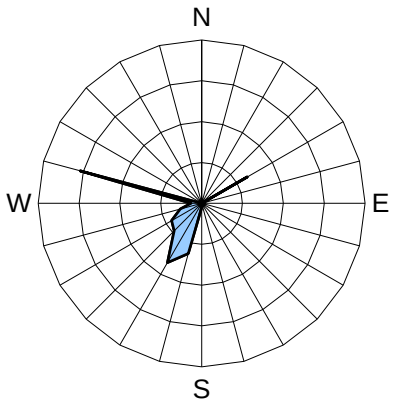


Figure 1. Wind rose for the period 2/13/2017 through 2/19/2017

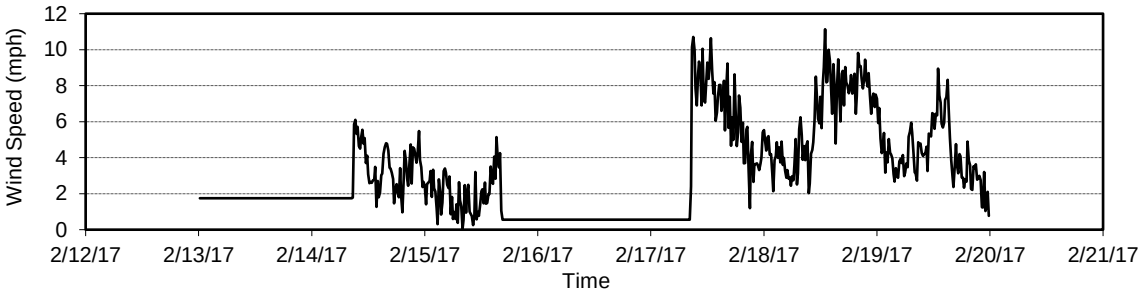


Figure 2. Wind speed for the period 2/13/2017 through 2/19/2017

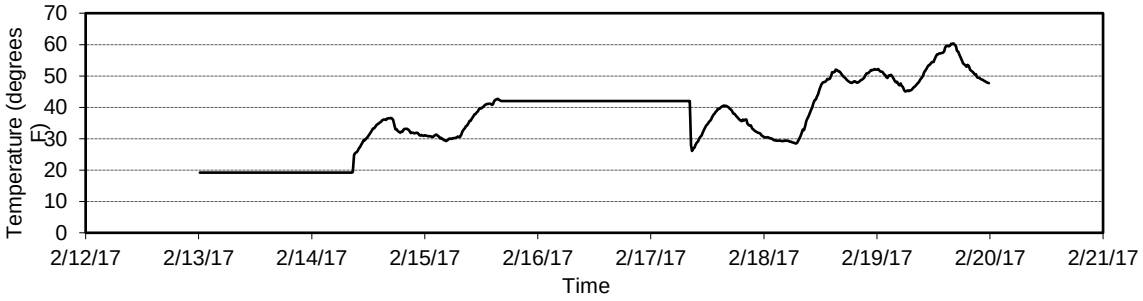


Figure 3. Temperature for the period 2/13/2017 through 2/19/2017

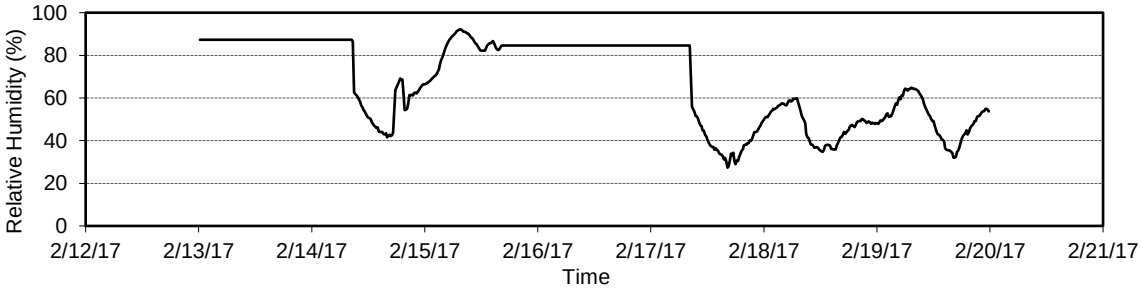


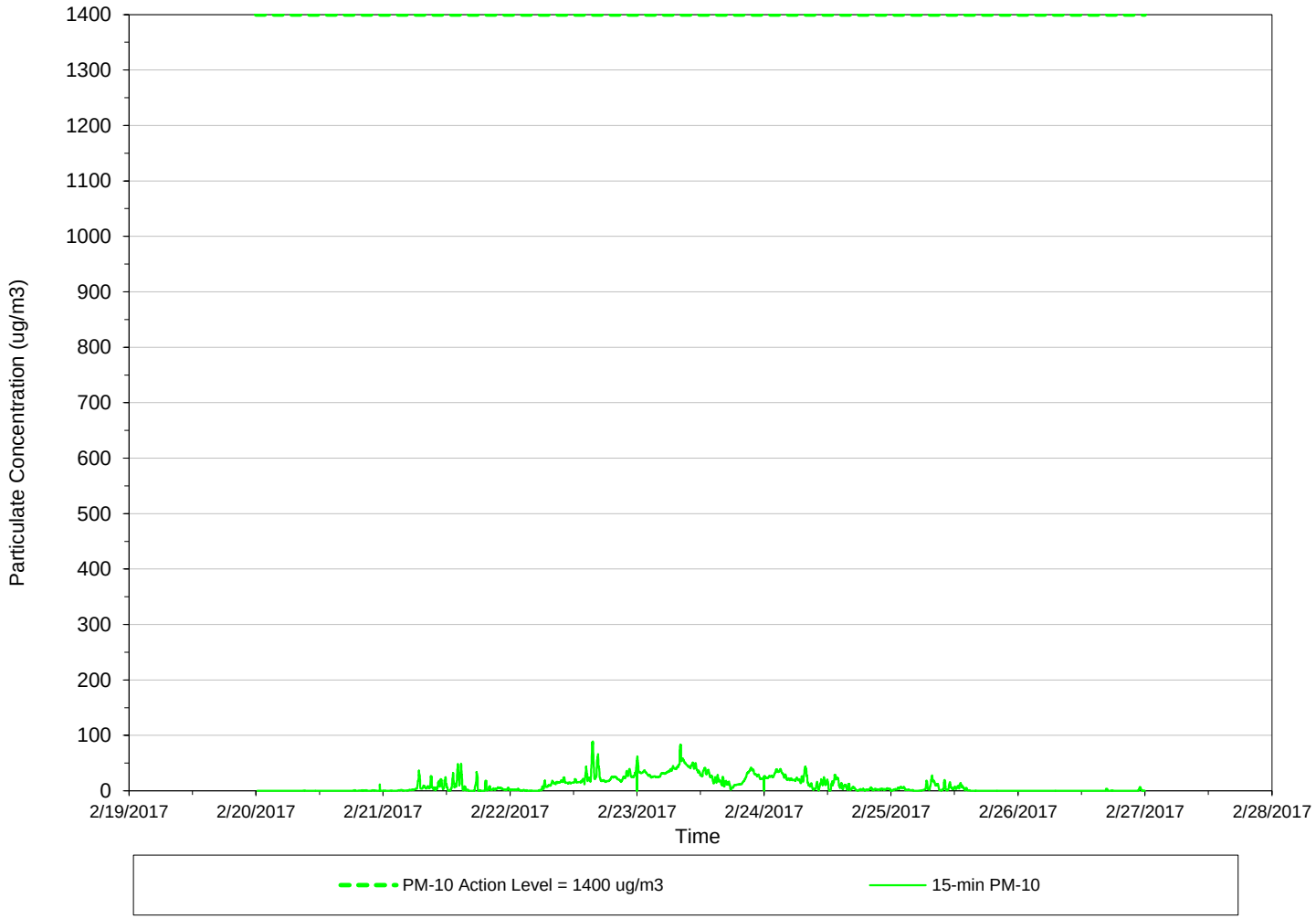
Figure 4. Relative humidity for the period 2/13/2017 through 2/19/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Feb27,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 10.02

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/20/2017	11.70
2/21/2017	49.32
2/22/2017	89.08
2/23/2017	83.45
2/24/2017	43.66
2/25/2017	28.05
2/26/2017	6.94

Wind Summary Statistics	
CALM	14%
UW	2%
UW/CW	0%
CW	0%
CW/DW	1%
DW	46%
DW/CW	5%
CW/UW	32%
TOTAL	100%

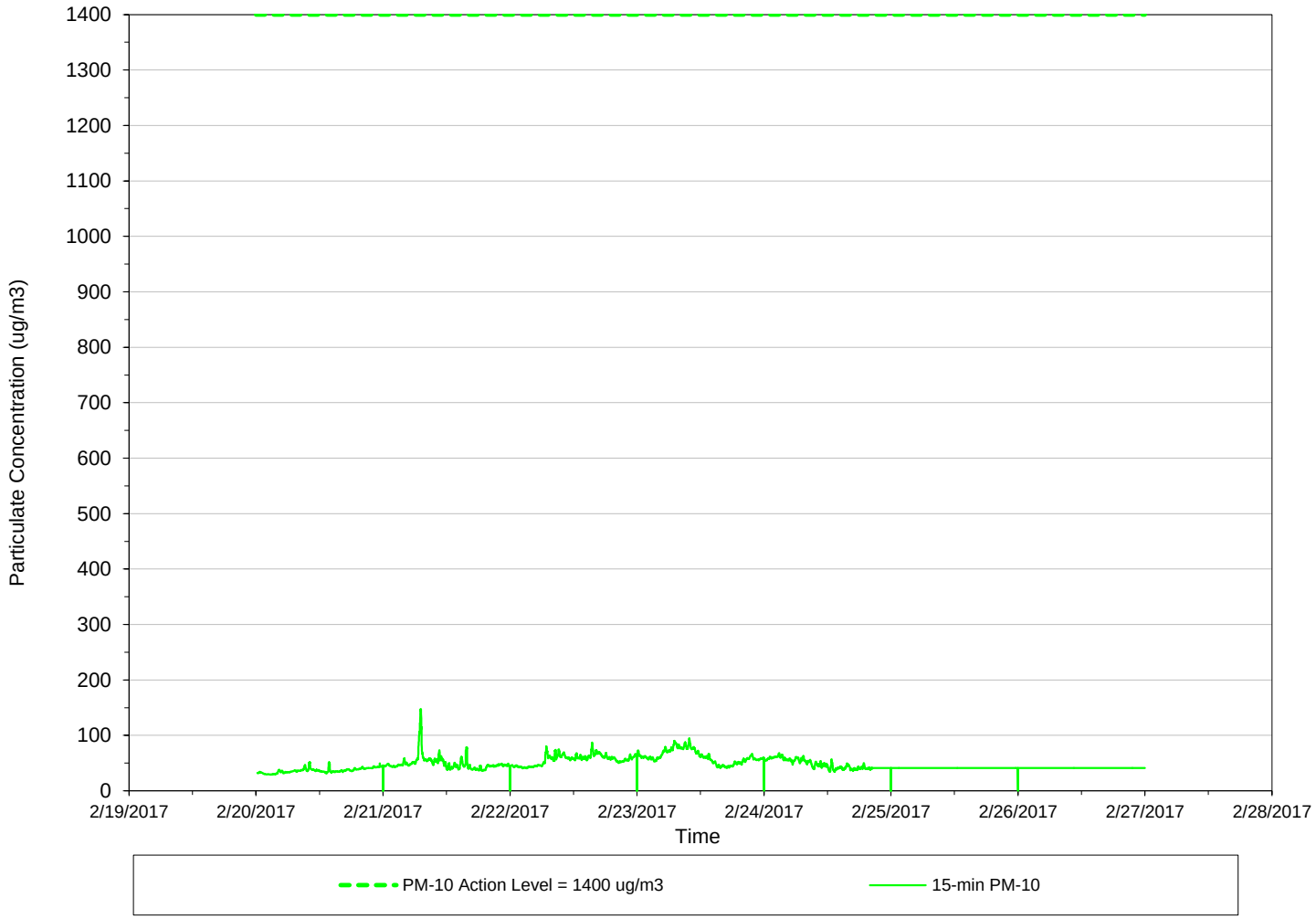
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PERIMETER AIR MONITORING SYSTEMS
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Filename: C:\Users\matthew.dion\Documents\Everett 2016\Air Logics\Reports\STA1_WEEKLYFeb17.xls

Feb27,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 47.84

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/20/2017	51.51
2/21/2017	147.62
2/22/2017	87.27
2/23/2017	94.25
2/24/2017	68.07
2/25/2017	41.20
2/26/2017	41.20

Wind Summary Statistics	
CALM	14%
UW	14%
UW/CW	4%
CW	27%
CW/DW	4%
DW	37%
DW/CW	0%
CW/UW	0%
TOTAL	100%

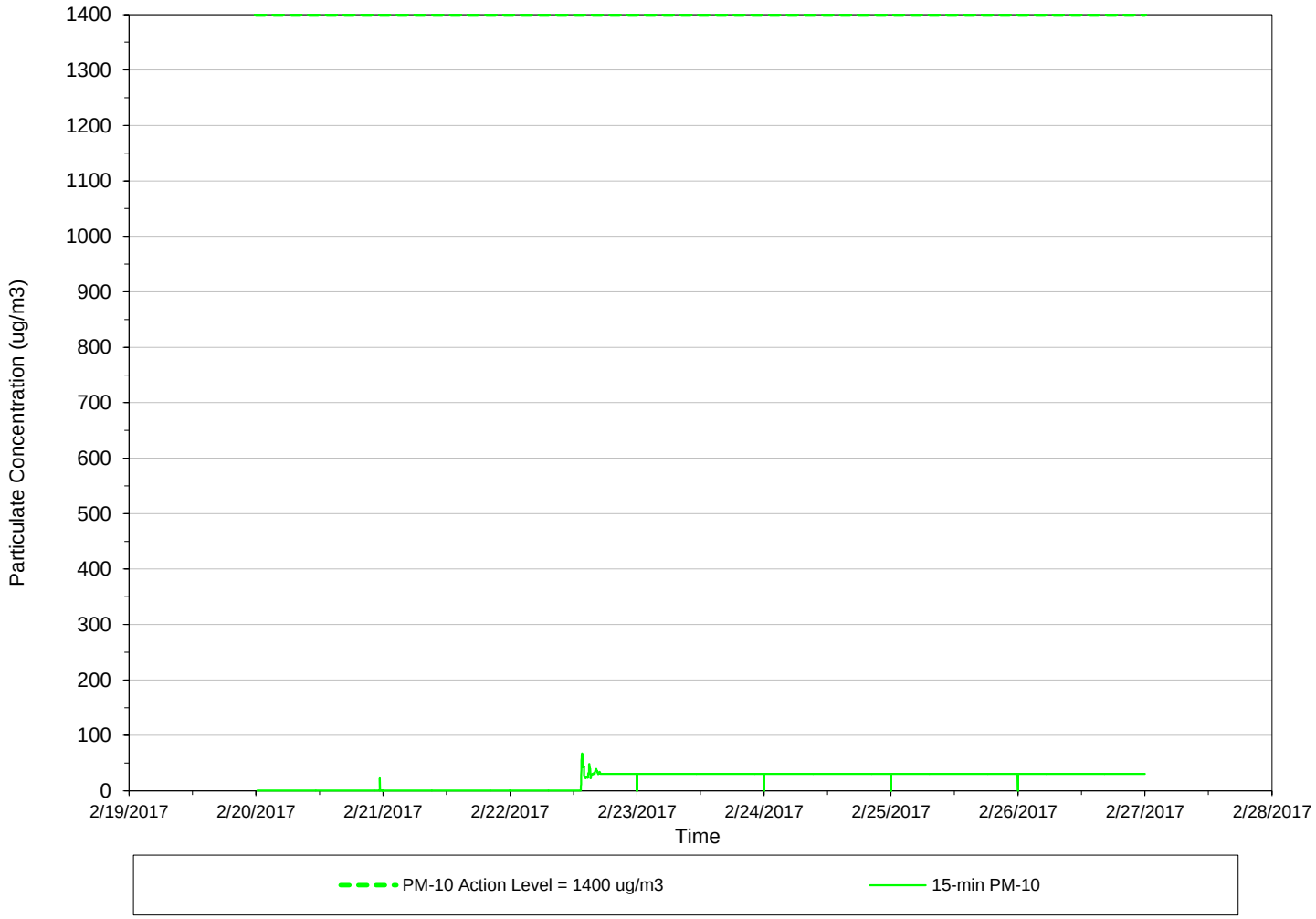
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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Filename: C:\Users\matthew.dion\Documents\Everett 2016\Air Logics\Reports\STA2_WEEKLYFeb17.xls

Feb27,2017

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 = 19.72

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/20/2017	22.77
2/21/2017	0.61
2/22/2017	67.43
2/23/2017	30.58
2/24/2017	30.58
2/25/2017	30.58
2/26/2017	30.58

Wind Summary Statistics	
CALM	14%
UW	55%
UW/CW	0%
CW	0%
CW/DW	0%
DW	6%
DW/CW	0%
CW/UW	25%
TOTAL	100%

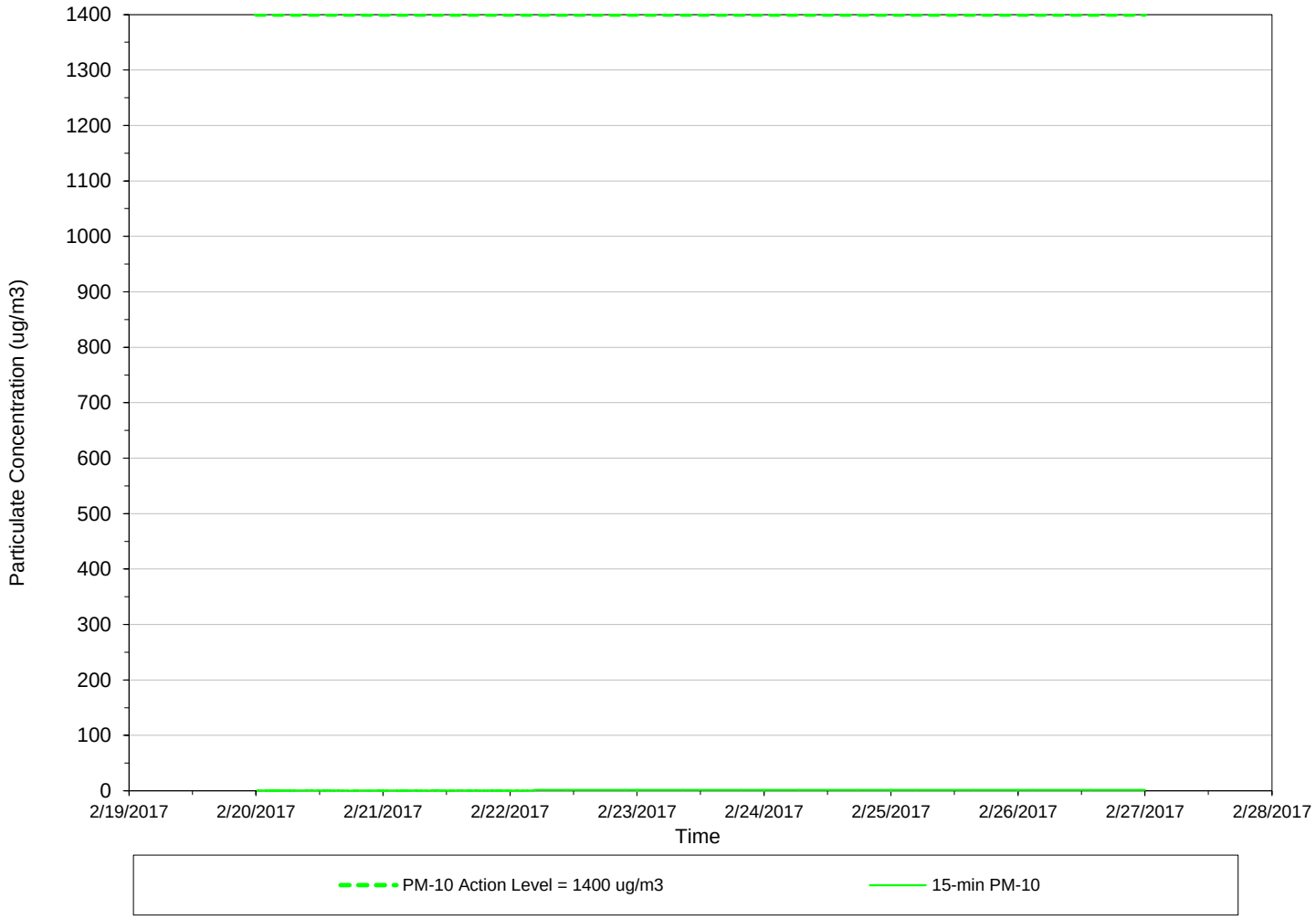
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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Filename: C:\Users\matthew.dion\Documents\Everett 2016\Air Logics\Reports\STA3_WEEKLYFeb17.xls

Feb27,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.17

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/20/2017	1.27
2/21/2017	1.09
2/22/2017	1.46
2/23/2017	1.46
2/24/2017	1.46
2/25/2017	1.46
2/26/2017	1.46

Wind Summary Statistics	
CALM	14%
UW	0%
UW/CW	0%
CW	42%
CW/DW	1%
DW	7%
DW/CW	1%
CW/UW	35%
TOTAL	100%

Filename: C:\Users\matthew.dion\Documents\Everett 2016\Air Logics\Reports\STA4_WEEKLYFeb17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

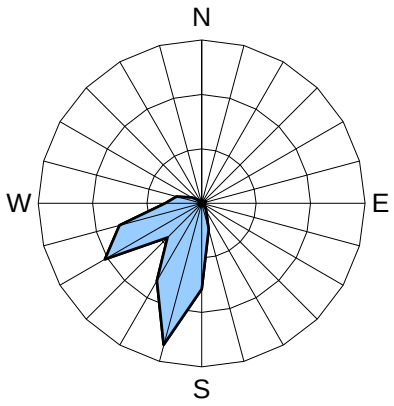


Figure 1. Wind rose for the period 2/20/2017 through 2/26/2017

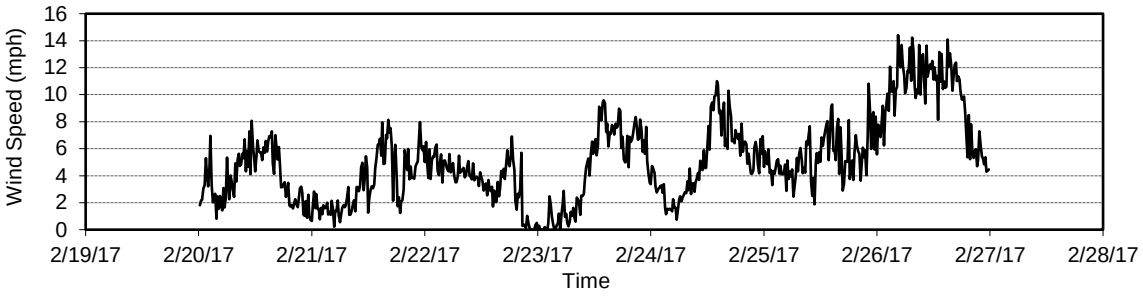


Figure 2. Wind speed for the period 2/20/2017 through 2/26/2017

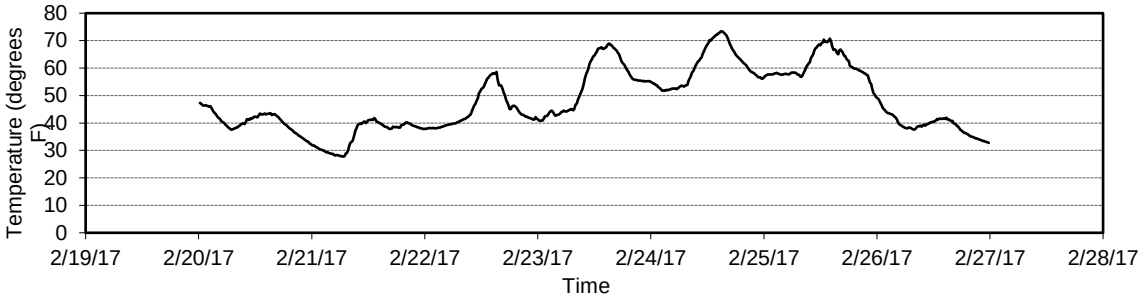


Figure 3. Temperature for the period 2/20/2017 through 2/26/2017

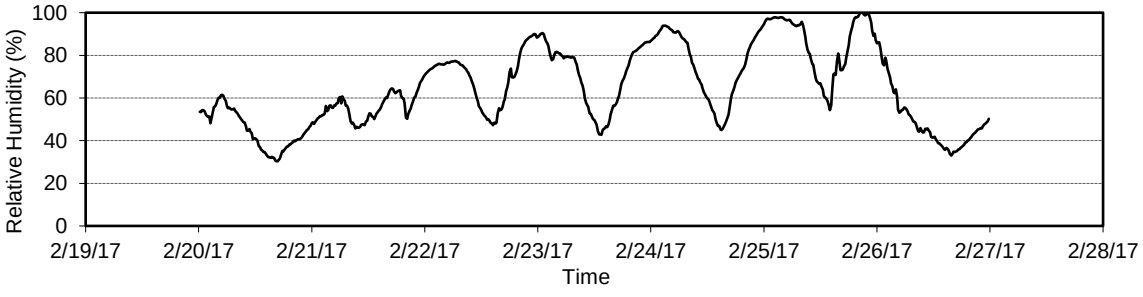


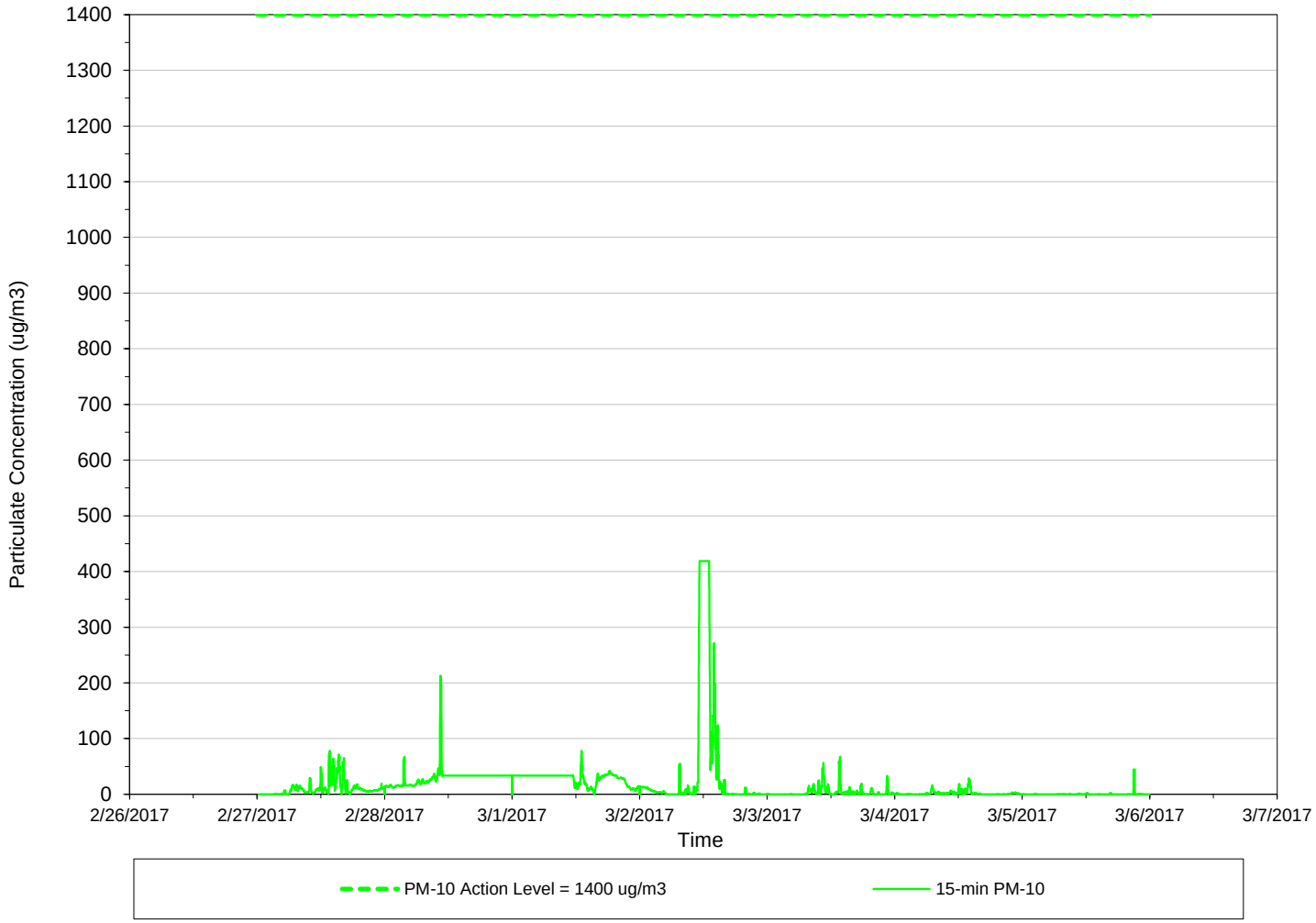
Figure 4. Relative humidity for the period 2/20/2017 through 2/26/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Mar06,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 17.52

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/27/2017	77.78
2/28/2017	213.18
3/1/2017	78.14
3/2/2017	418.96
3/3/2017	67.55
3/4/2017	28.85
3/5/2017	44.56

Wind Summary Statistics	
CALM	18%
UW	0%
UW/CW	0%
CW	0%
CW/DW	0%
DW	25%
DW/CW	8%
CW/UW	49%
TOTAL	100%

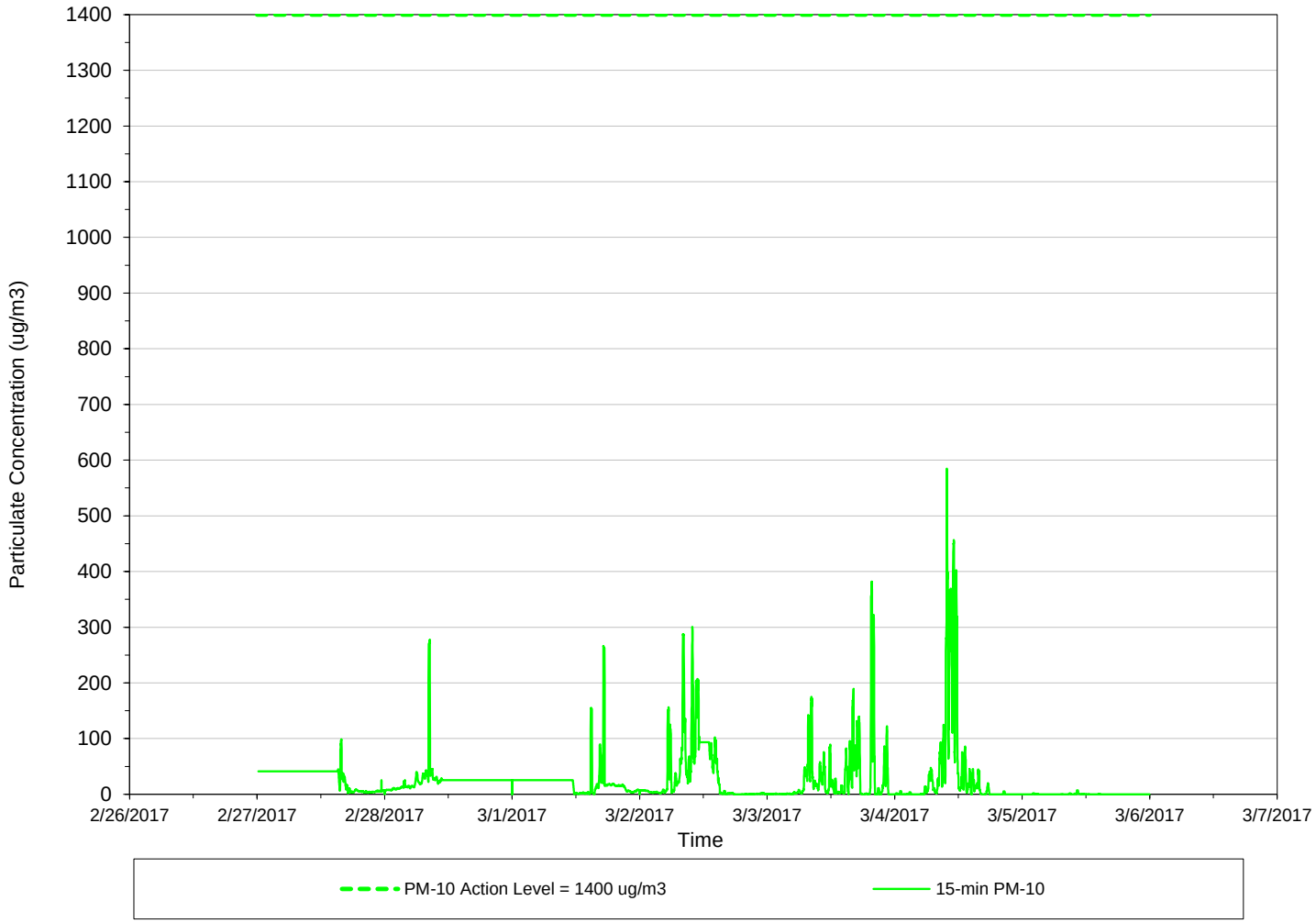
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\March 2017\STA1_WEEKLYMar17.xls

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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Mar06,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 25.72

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/27/2017	98.85
2/28/2017	277.36
3/1/2017	265.96
3/2/2017	300.53
3/3/2017	381.83
3/4/2017	584.90
3/5/2017	7.18

Wind Summary Statistics	
CALM	18%
UW	2%
UW/CW	1%
CW	18%
CW/DW	8%
DW	54%
DW/CW	0%
CW/UW	0%
TOTAL	100%

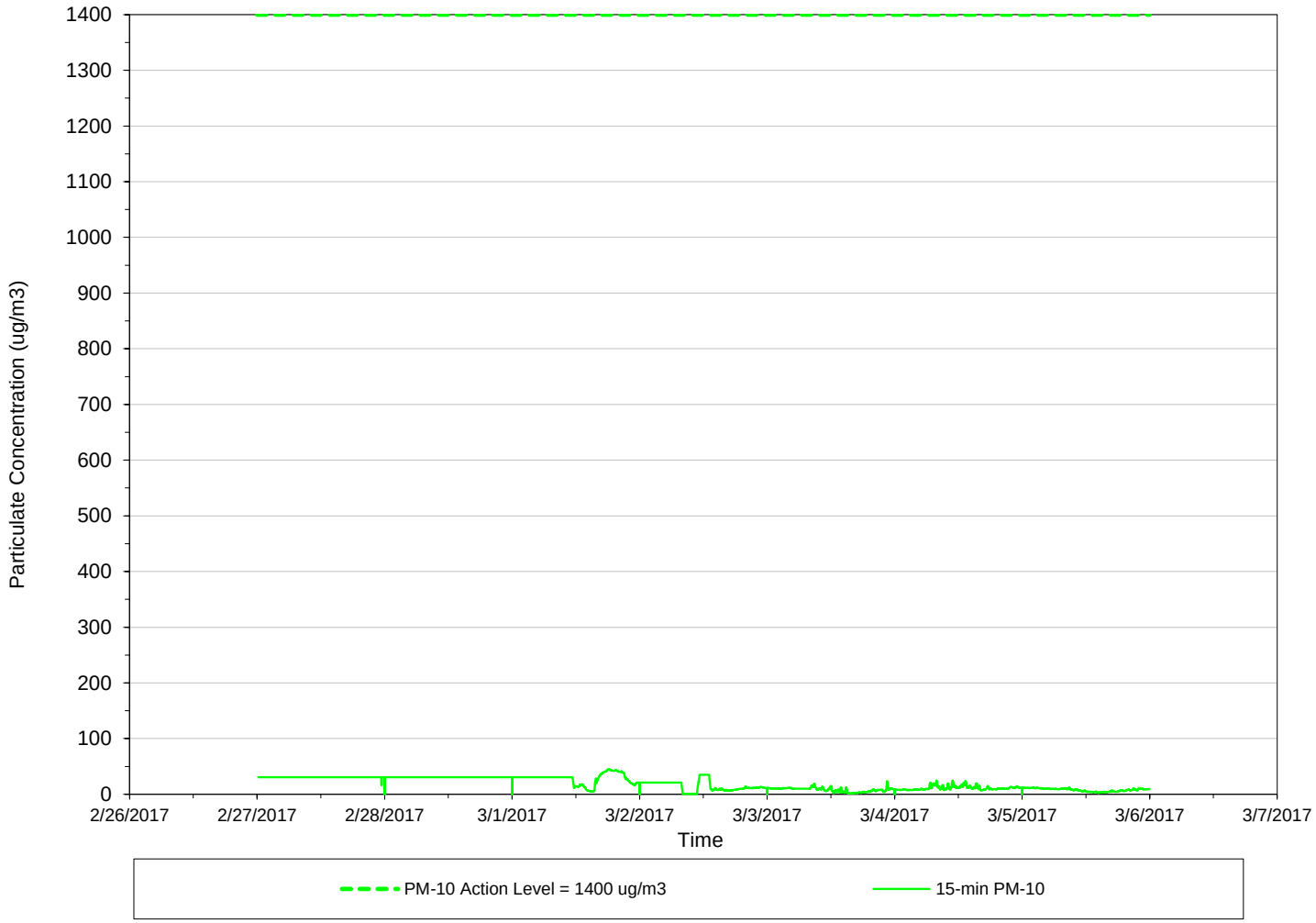
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\March 2017\STA2_WEEKLYMar17.xls

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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 = 18.78

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/27/2017	30.58
2/28/2017	30.58
3/1/2017	45.06
3/2/2017	34.97
3/3/2017	23.46
3/4/2017	24.90
3/5/2017	12.31

Wind Summary Statistics	
CALM	18%
UW	46%
UW/CW	0%
CW	0%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	36%
TOTAL	100%

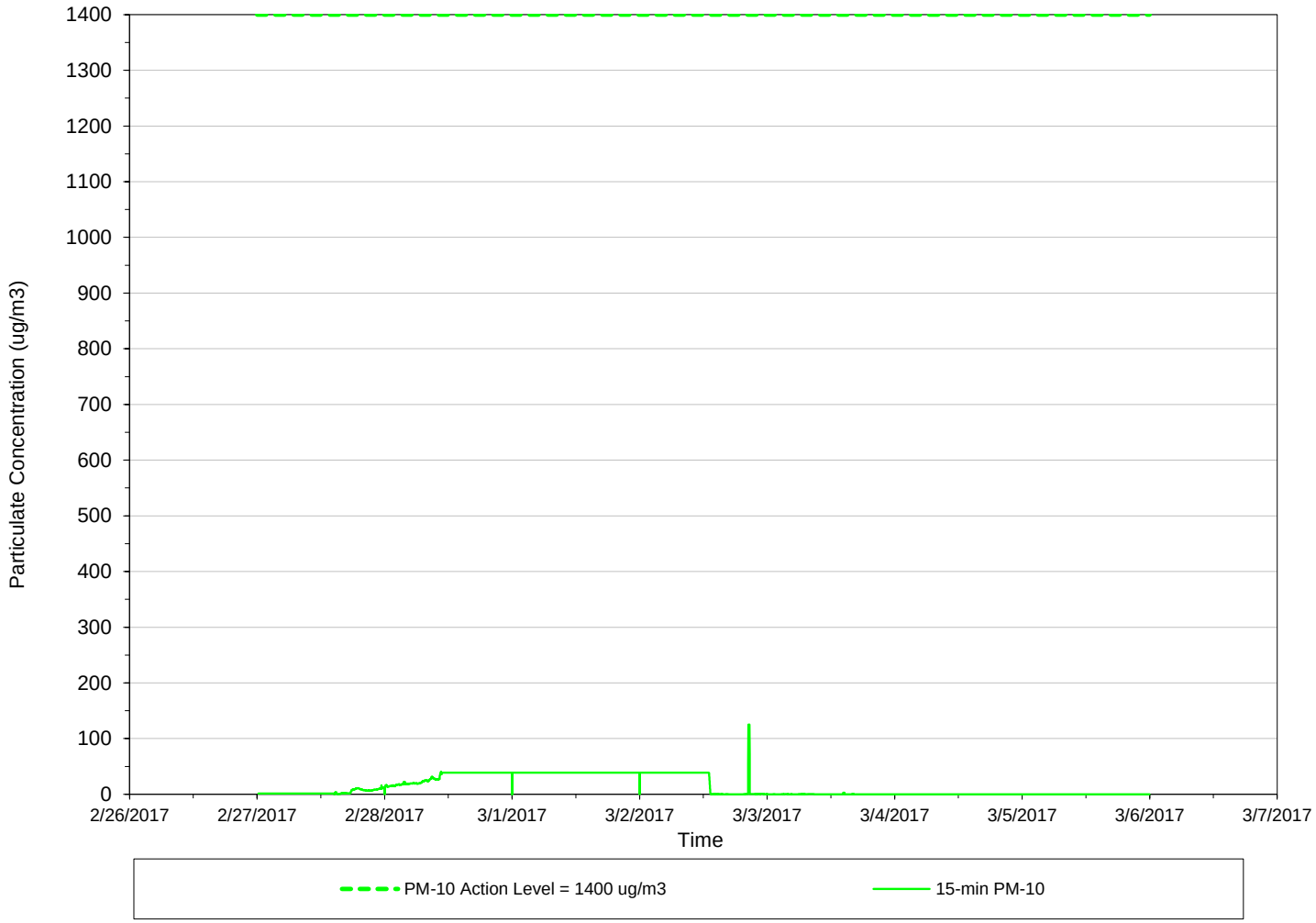
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\March 2017\STA3_WEEKLYMar17.xls

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Mar06,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 13.75

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
2/27/2017	15.55
2/28/2017	40.23
3/1/2017	38.94
3/2/2017	125.27
3/3/2017	2.87
3/4/2017	0.00
3/5/2017	0.00

Wind Summary Statistics	
CALM	18%
UW	0%
UW/CW	0%
CW	28%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	54%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

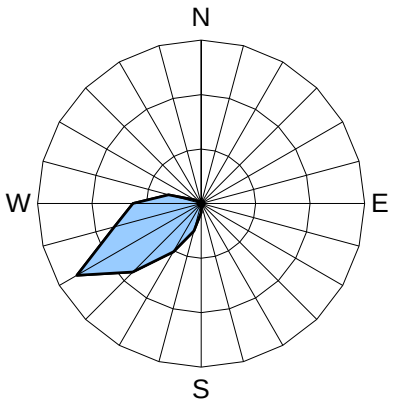


Figure 1. Wind rose for the period 2/27/2017 through 3/5/2017

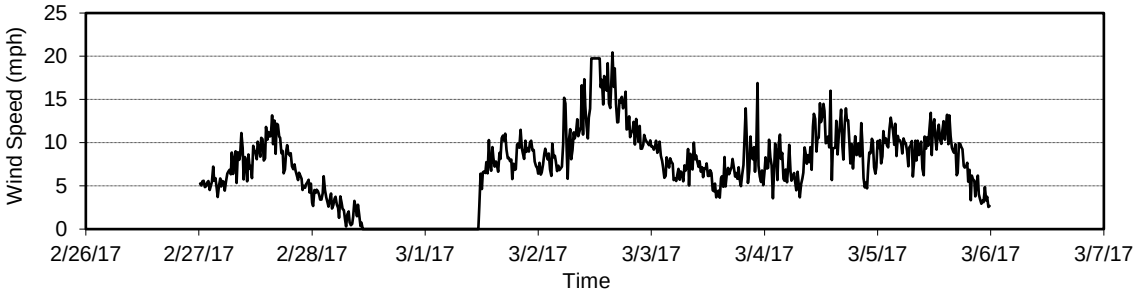


Figure 2. Wind speed for the period 2/27/2017 through 3/5/2017

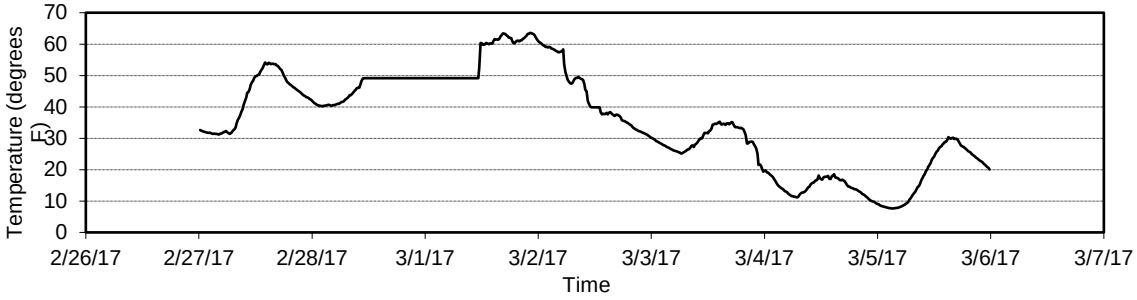


Figure 3. Temperature for the period 2/27/2017 through 3/5/2017

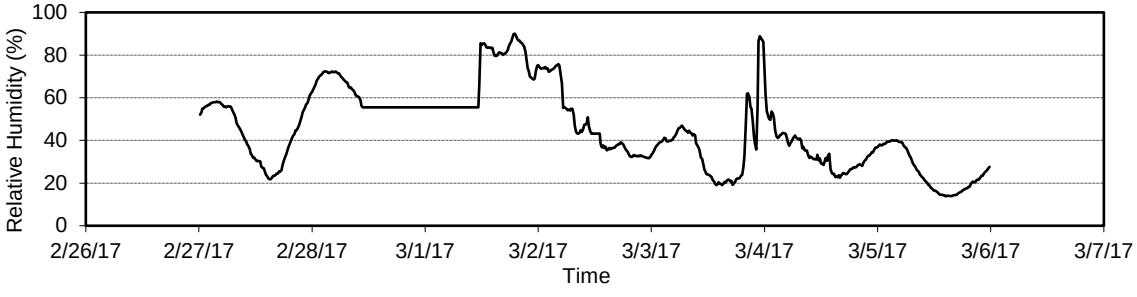


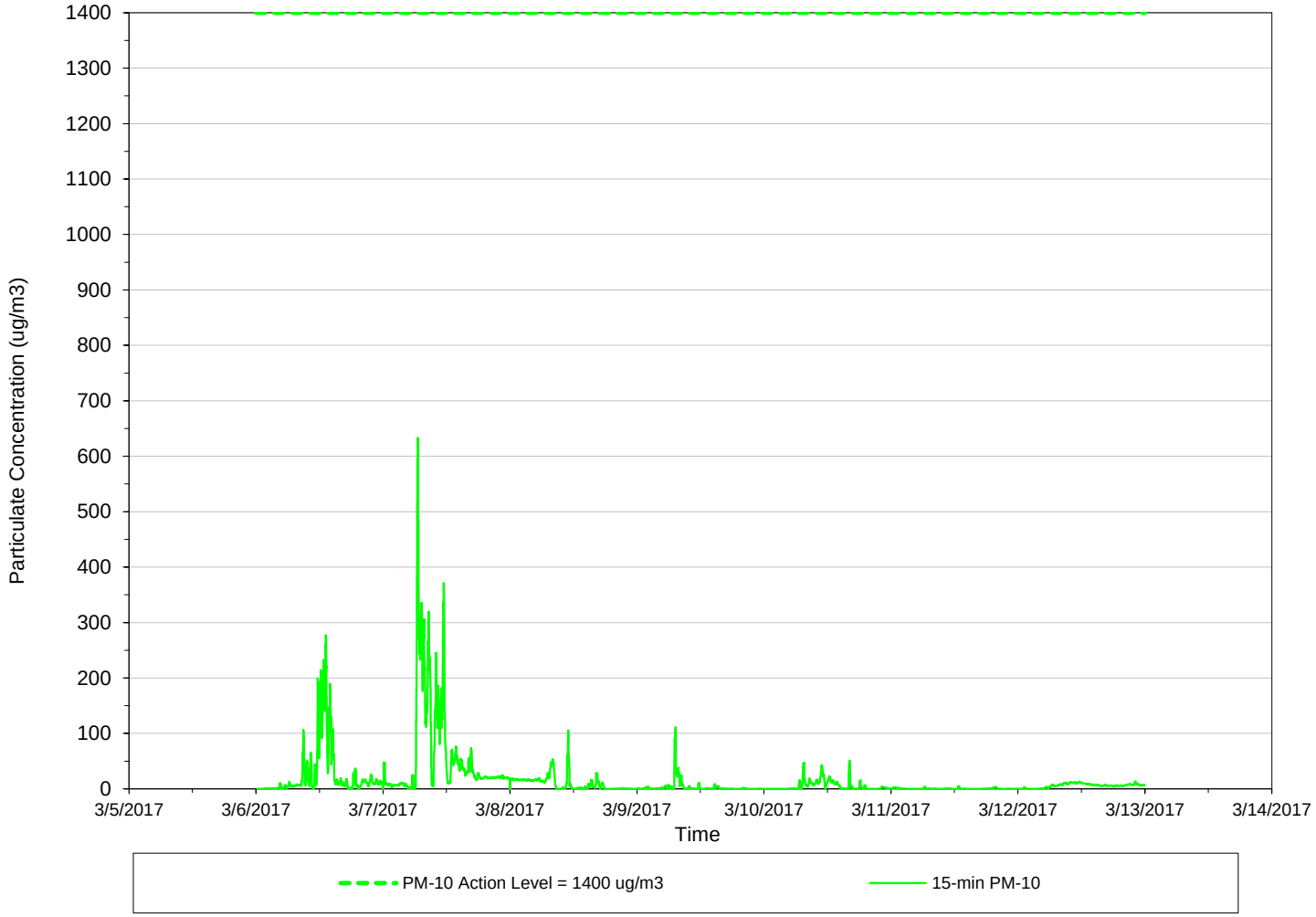
Figure 4. Relative humidity for the period 2/27/2017 through 3/5/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Mar13,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 16.57

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/6/2017	277.23
3/7/2017	632.98
3/8/2017	105.28
3/9/2017	111.11
3/10/2017	50.66
3/11/2017	4.91
3/12/2017	13.37

Wind Summary Statistics	
CALM	10%
UW	3%
UW/CW	0%
CW	0%
CW/DW	1%
DW	42%
DW/CW	4%
CW/UW	42%
TOTAL	100%

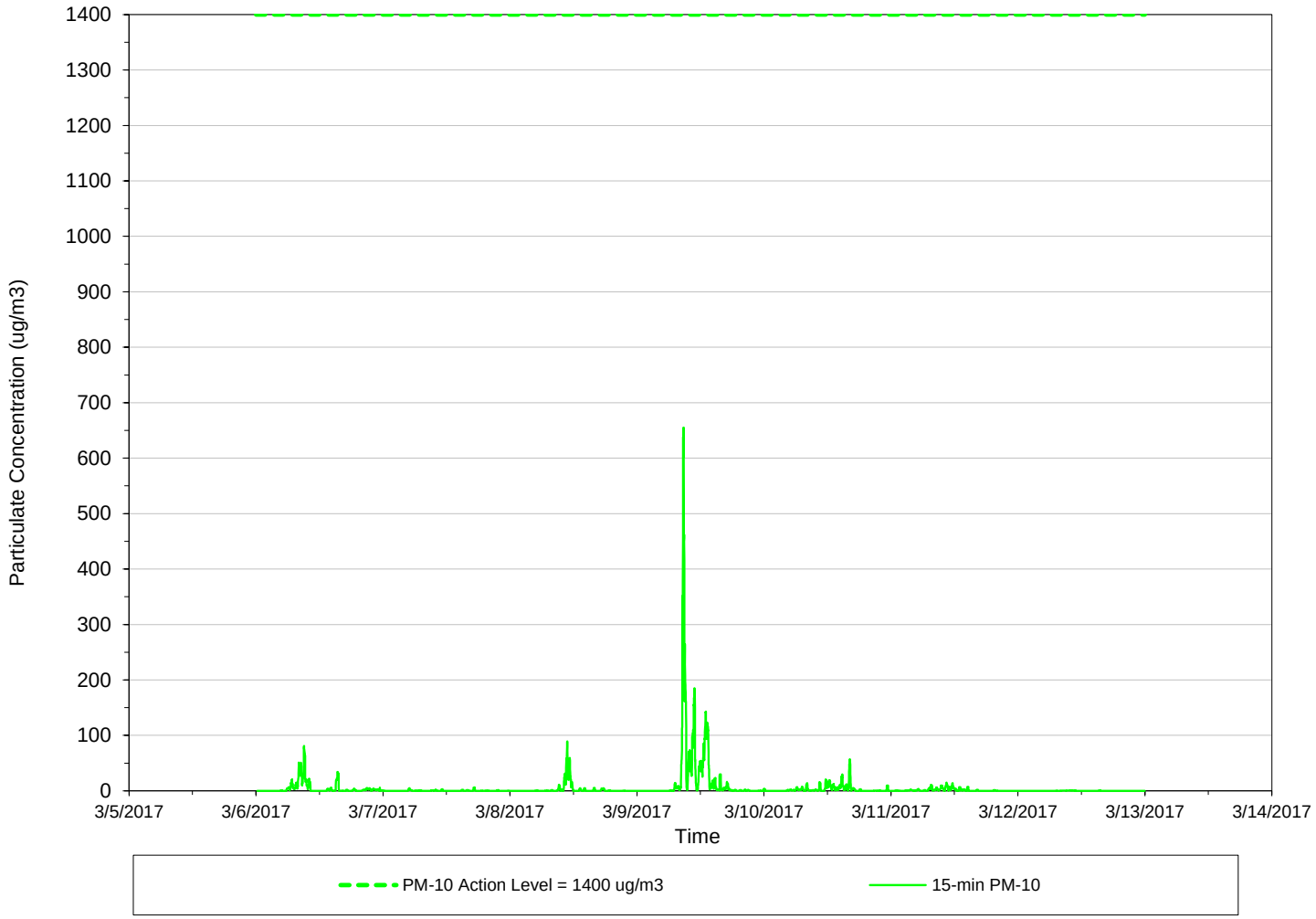
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AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 5.23

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/6/2017	81.00
3/7/2017	6.17
3/8/2017	89.24
3/9/2017	654.77
3/10/2017	56.42
3/11/2017	15.03
3/12/2017	0.85

Wind Summary Statistics	
CALM	10%
UW	28%
UW/CW	2%
CW	11%
CW/DW	3%
DW	46%
DW/CW	1%
CW/UW	0%
TOTAL	100%

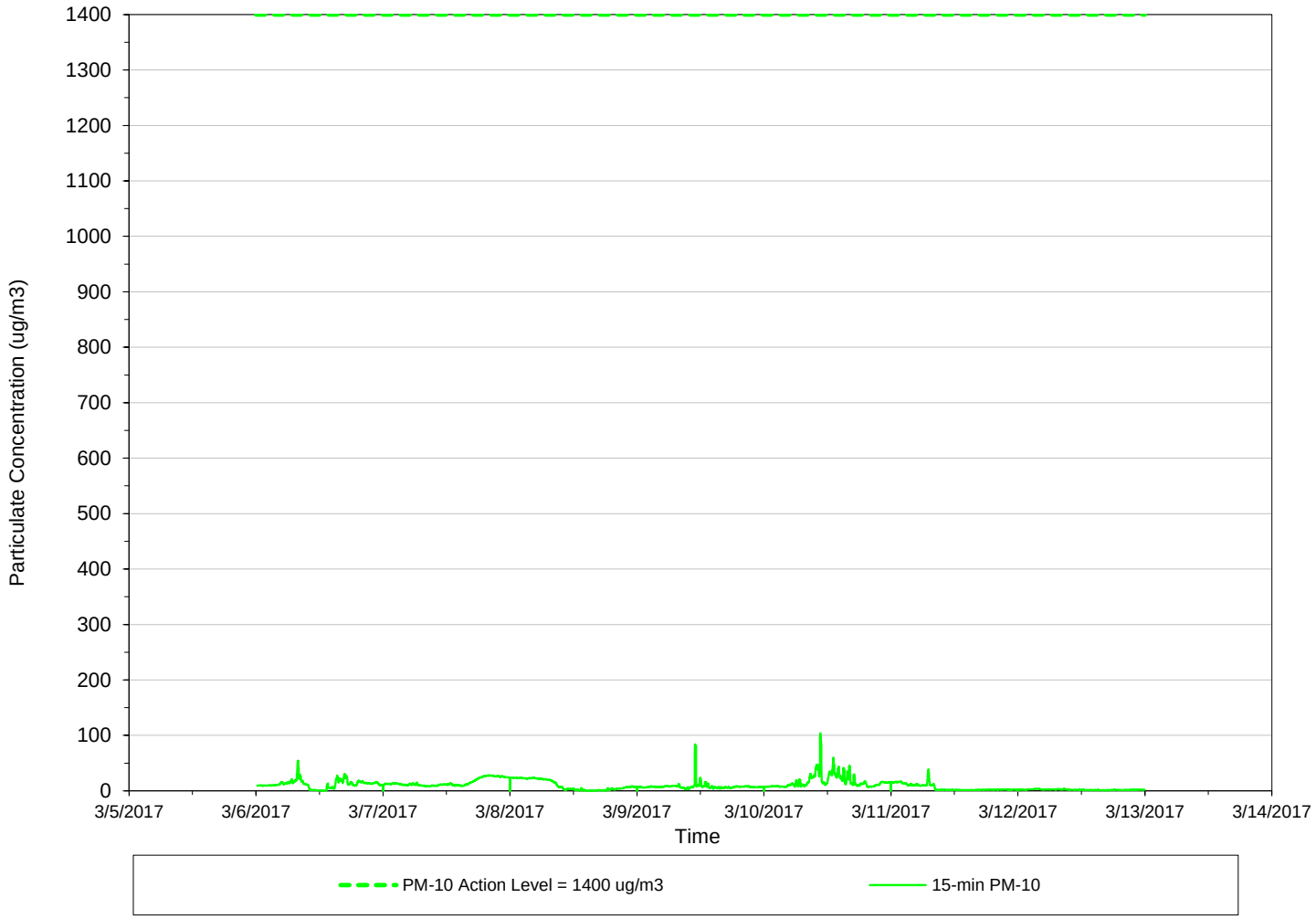
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AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 10.15

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/6/2017	54.08
3/7/2017	27.94
3/8/2017	24.00
3/9/2017	83.91
3/10/2017	103.73
3/11/2017	38.99
3/12/2017	3.72

Wind Summary Statistics	
CALM	10%
UW	53%
UW/CW	0%
CW	0%
CW/DW	0%
DW	4%
DW/CW	0%
CW/UW	33%
TOTAL	100%

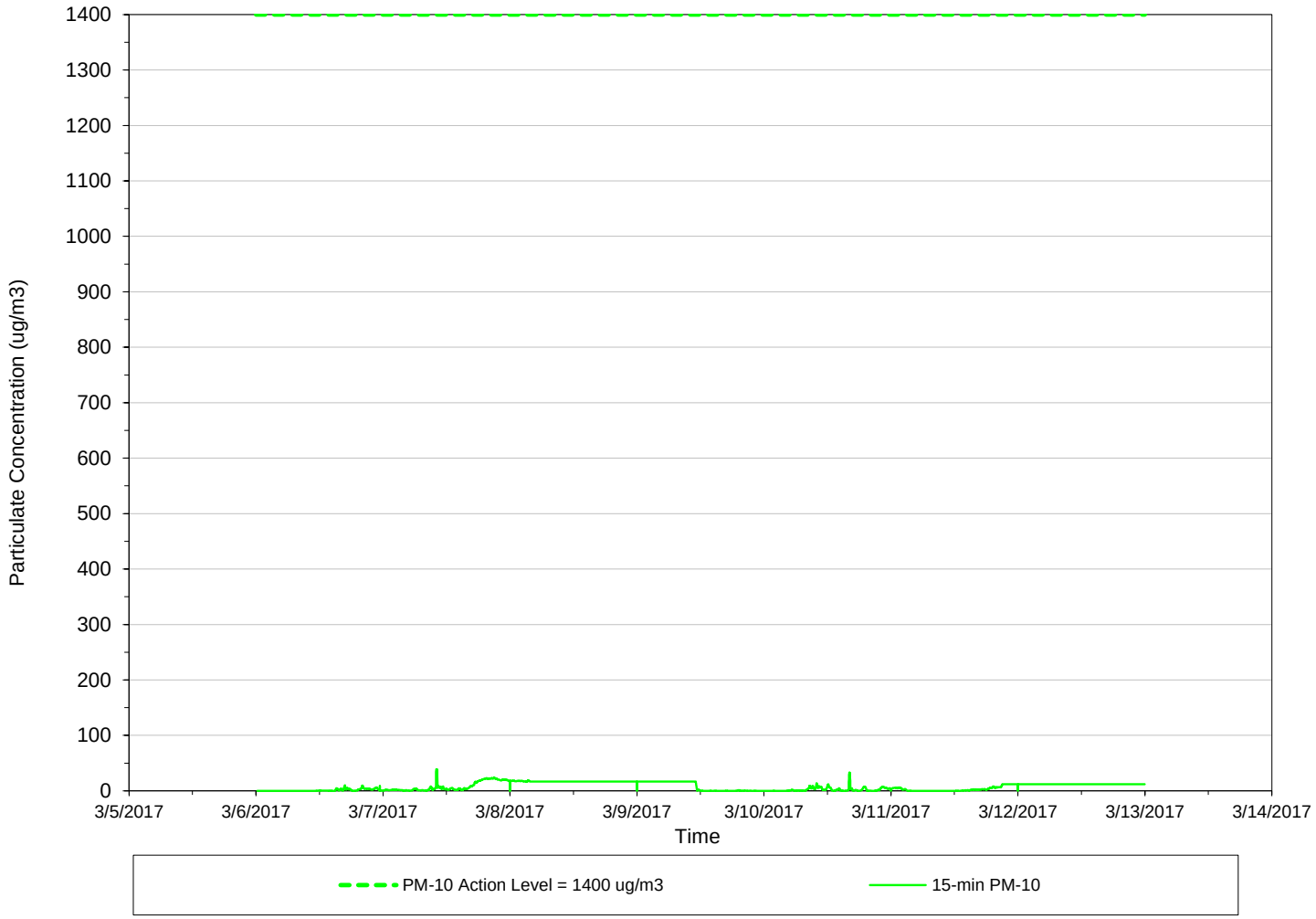
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\March 2017\STA3_WEEKLYMar17.xls

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Mar13,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 7.40

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/6/2017	10.16
3/7/2017	38.68
3/8/2017	18.90
3/9/2017	16.97
3/10/2017	32.81
3/11/2017	11.96
3/12/2017	11.96

Wind Summary Statistics	
CALM	10%
UW	0%
UW/CW	0%
CW	43%
CW/DW	1%
DW	3%
DW/CW	1%
CW/UW	44%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

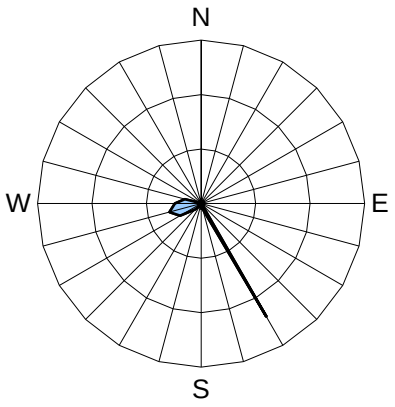


Figure 1. Wind rose for the period 3/6/2017 through 3/12/2017

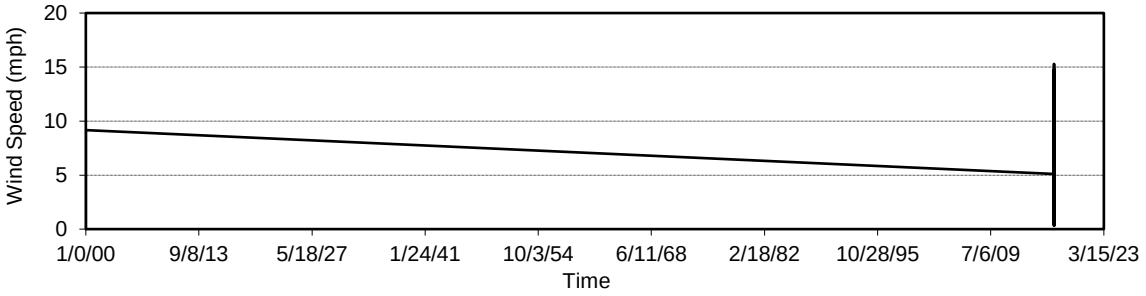


Figure 2. Wind speed for the period 3/6/2017 through 3/12/2017

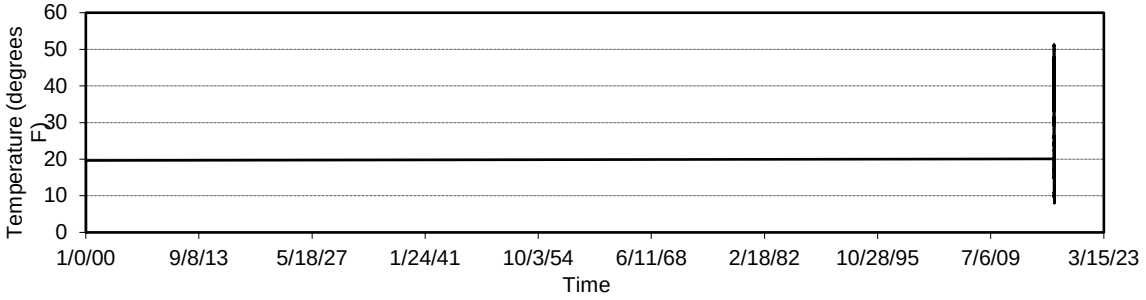


Figure 3. Temperature for the period 3/6/2017 through 3/12/2017

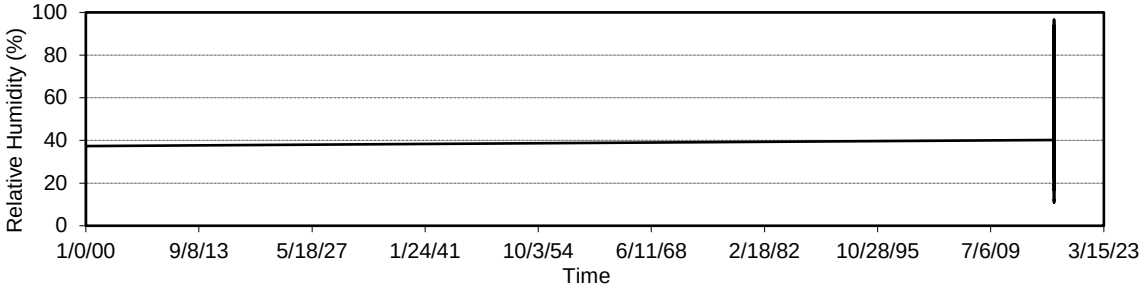


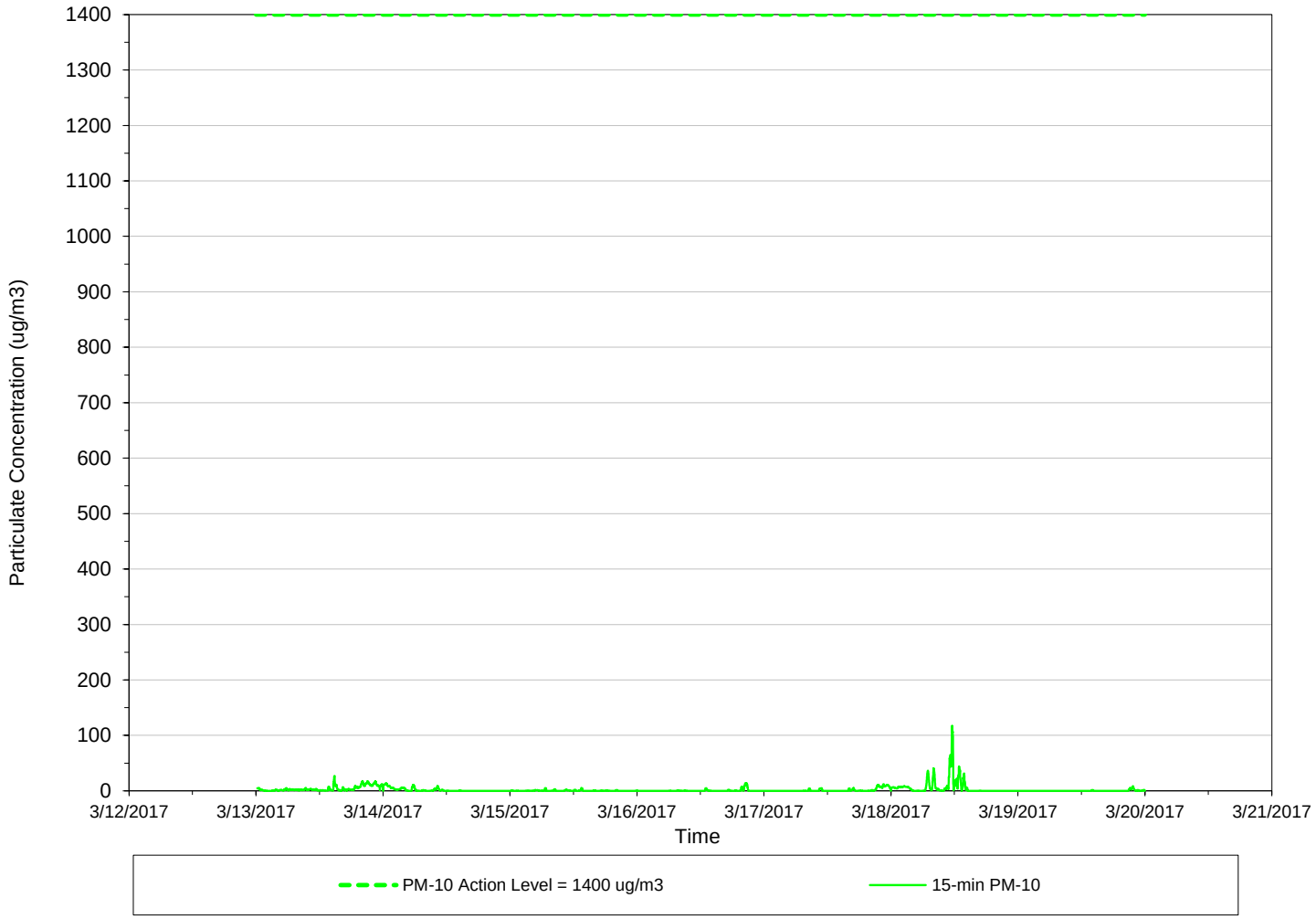
Figure 4. Relative humidity for the period 3/6/2017 through 3/12/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Mar20,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.15

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/13/2017	26.69
3/14/2017	13.81
3/15/2017	5.02
3/16/2017	13.76
3/17/2017	12.09
3/18/2017	116.98
3/19/2017	7.92

Wind Summary Statistics	
CALM	10%
UW	23%
UW/CW	0%
CW	0%
CW/DW	2%
DW	20%
DW/CW	6%
CW/UW	38%
TOTAL	100%

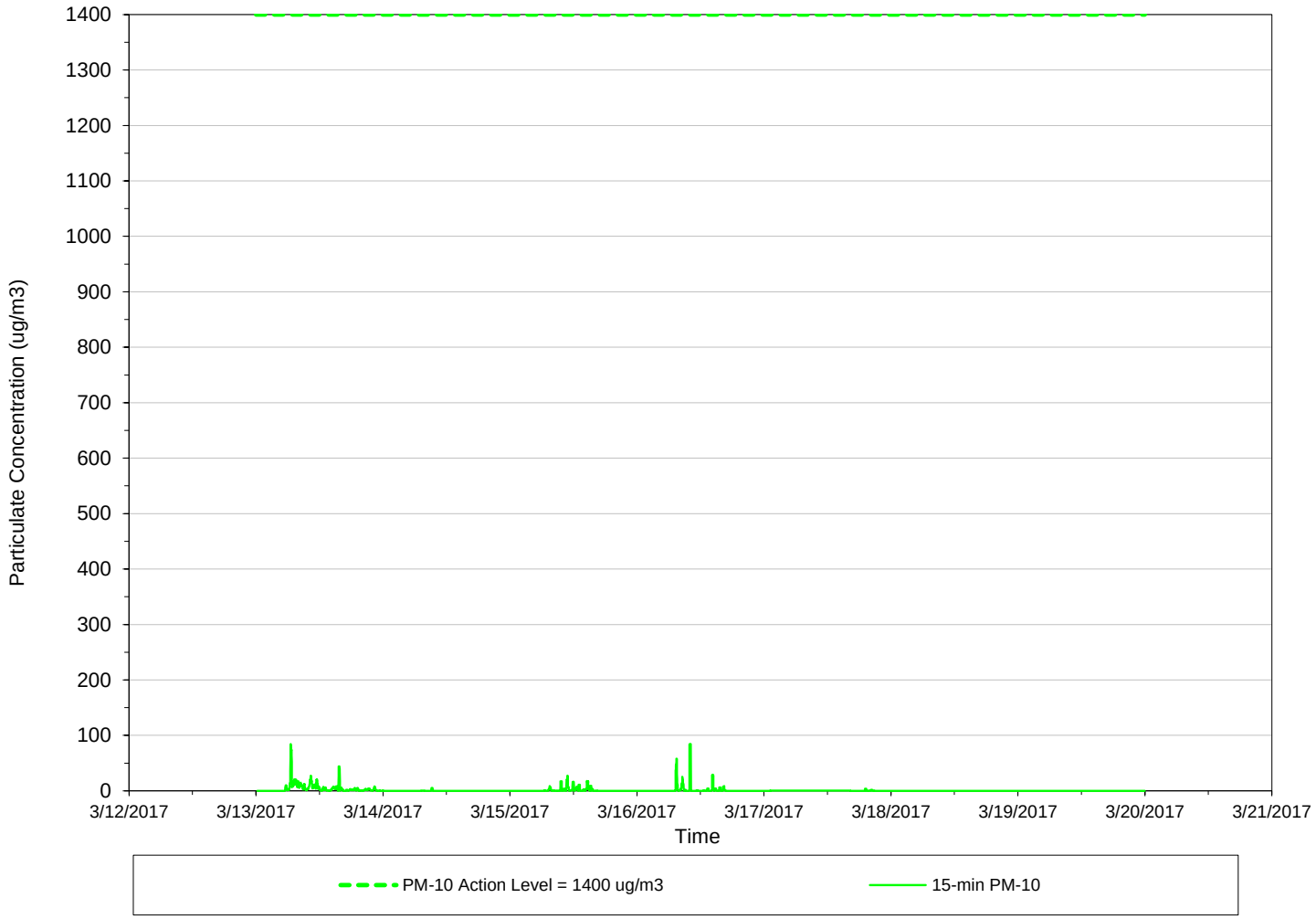
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PERIMETER AIR MONITORING SYSTEMS
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Mar20,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.36

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/13/2017	84.15
3/14/2017	5.07
3/15/2017	27.33
3/16/2017	84.45
3/17/2017	3.67
3/18/2017	0.00
3/19/2017	0.00

Wind Summary Statistics	
CALM	10%
UW	8%
UW/CW	1%
CW	10%
CW/DW	6%
DW	63%
DW/CW	3%
CW/UW	0%
TOTAL	100%

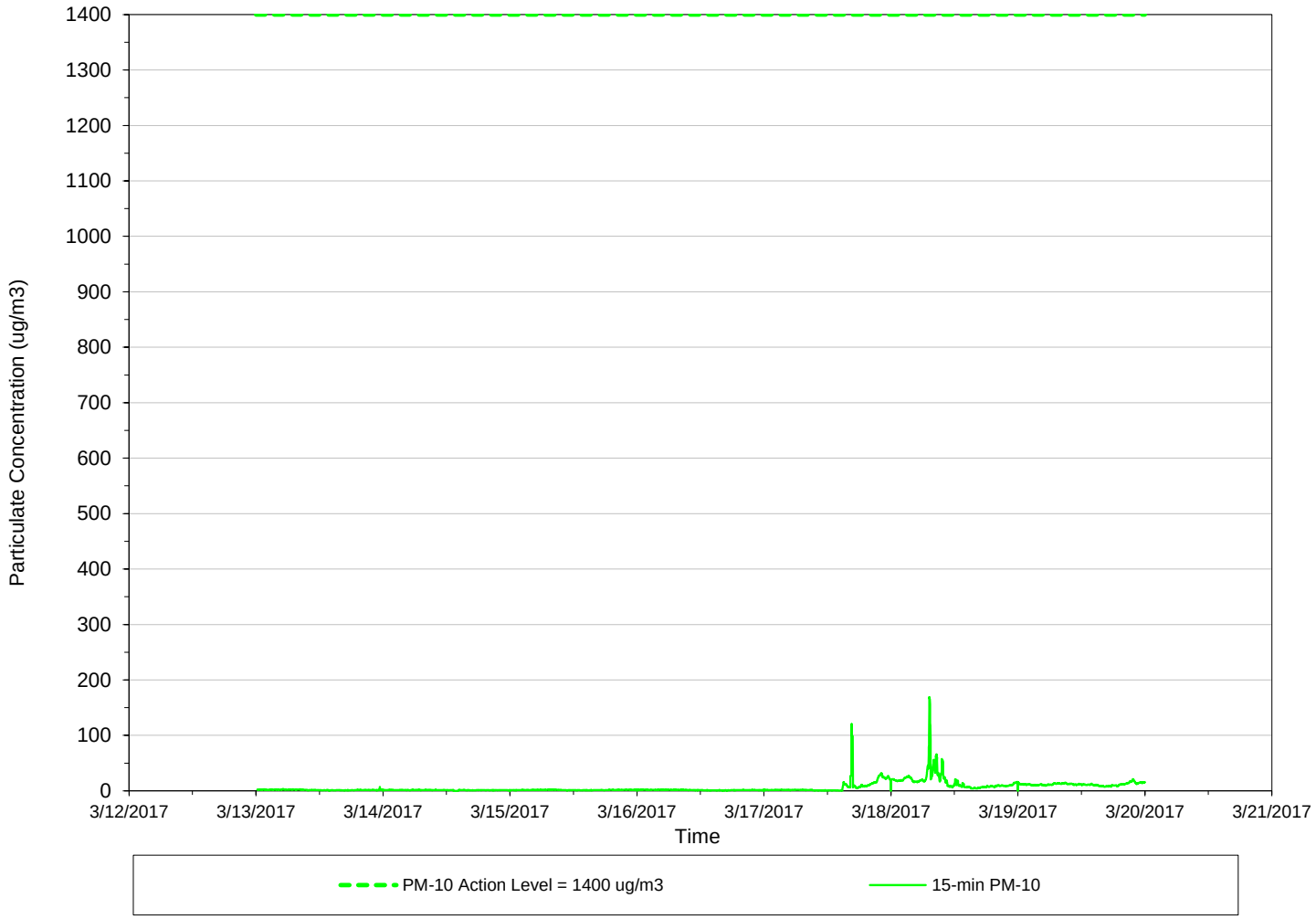
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AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.10

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/13/2017	6.78
3/14/2017	1.83
3/15/2017	2.71
3/16/2017	2.58
3/17/2017	120.18
3/18/2017	168.98
3/19/2017	20.87

Wind Summary Statistics	
CALM	10%
UW	30%
UW/CW	0%
CW	0%
CW/DW	0%
DW	29%
DW/CW	0%
CW/UW	31%
TOTAL	100%

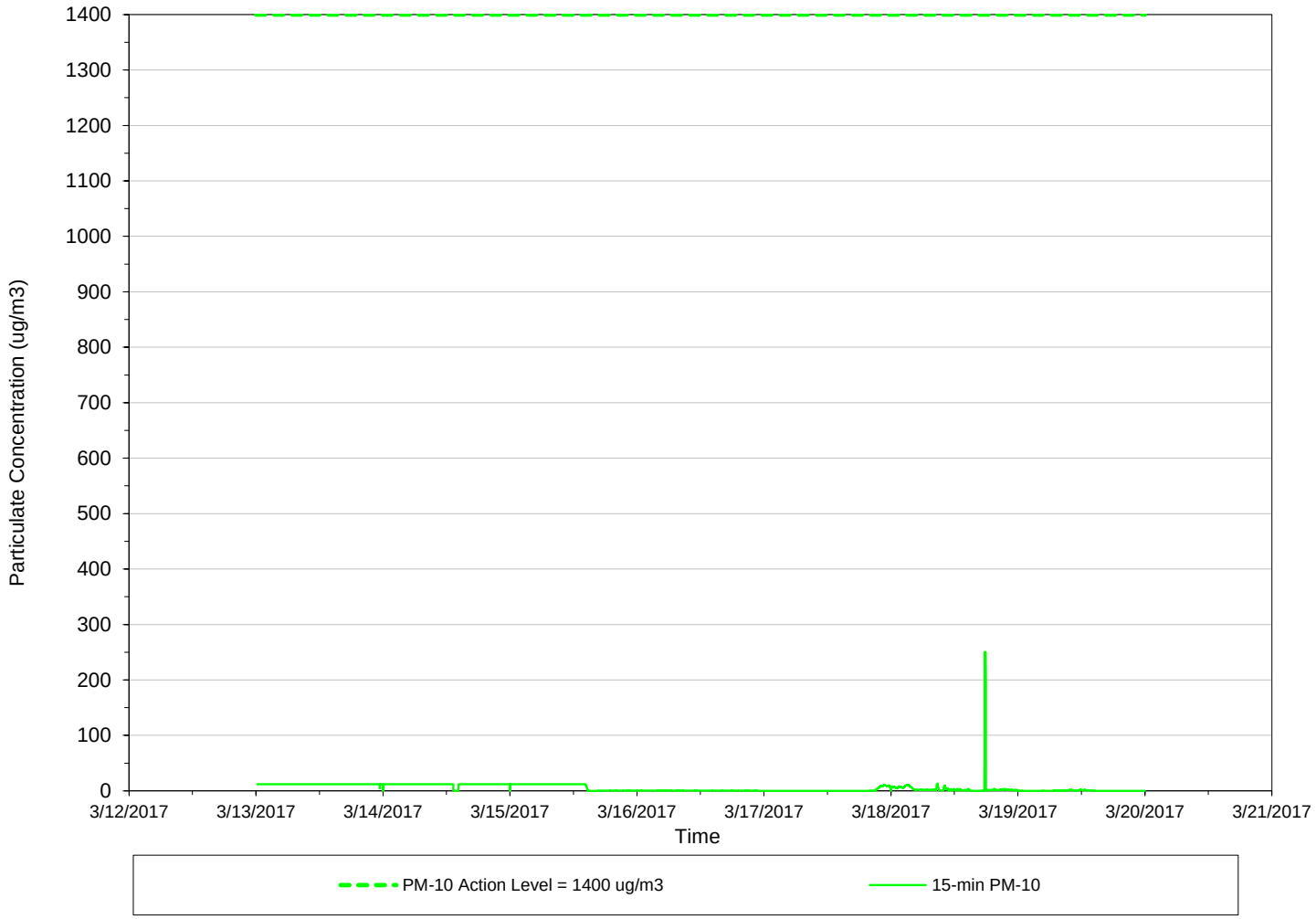
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\March 2017\STA3_WEEKLYMar17.xls

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PERIMETER AIR MONITORING SYSTEMS
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Mar20,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 5.43

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/13/2017	11.96
3/14/2017	11.96
3/15/2017	11.96
3/16/2017	0.92
3/17/2017	10.76
3/18/2017	250.42
3/19/2017	2.27

Wind Summary Statistics	
CALM	10%
UW	0%
UW/CW	0%
CW	42%
CW/DW	2%
DW	4%
DW/CW	0%
CW/UW	41%
TOTAL	100%

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PERIMETER AIR MONITORING SYSTEMS
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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

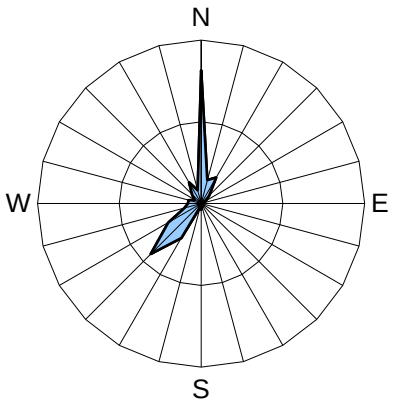


Figure 1. Wind rose for the period 3/13/2017 through 3/19/2017

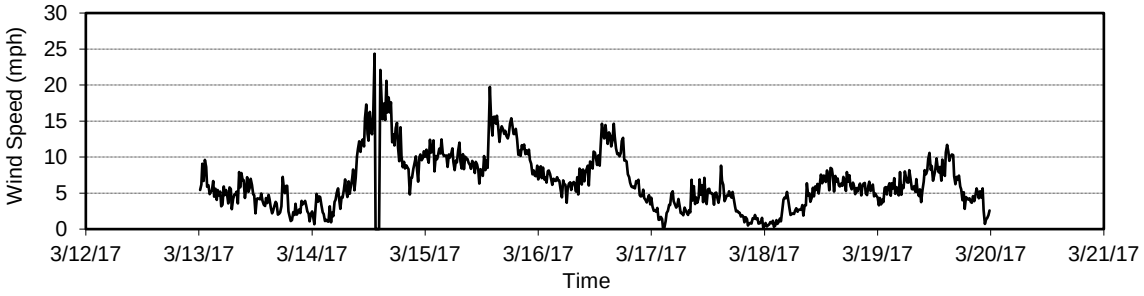


Figure 2. Wind speed for the period 3/13/2017 through 3/19/2017

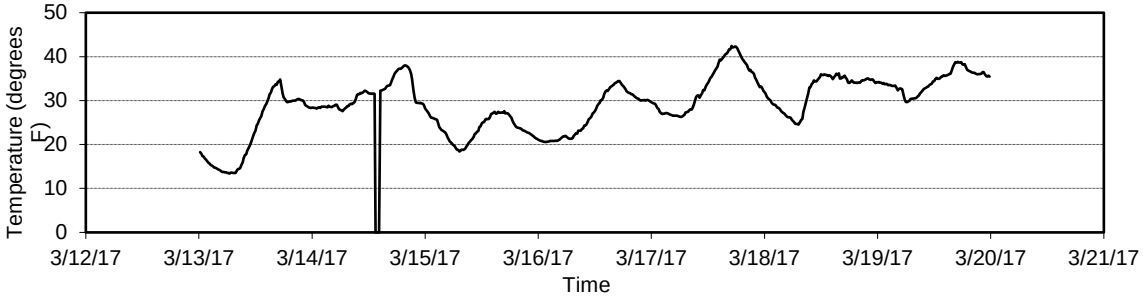


Figure 3. Temperature for the period 3/13/2017 through 3/19/2017

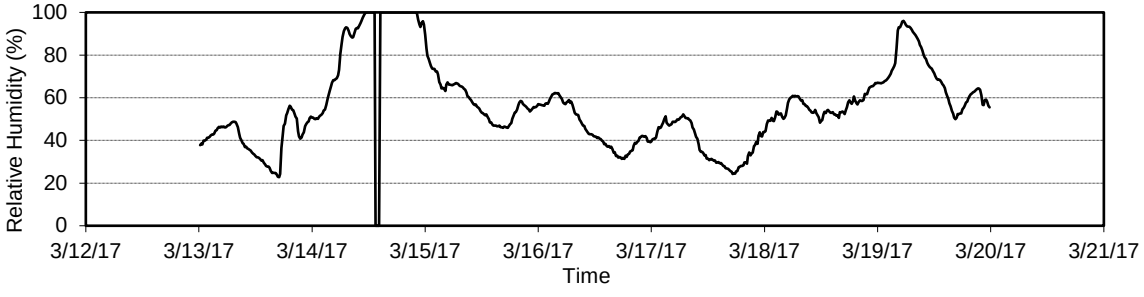


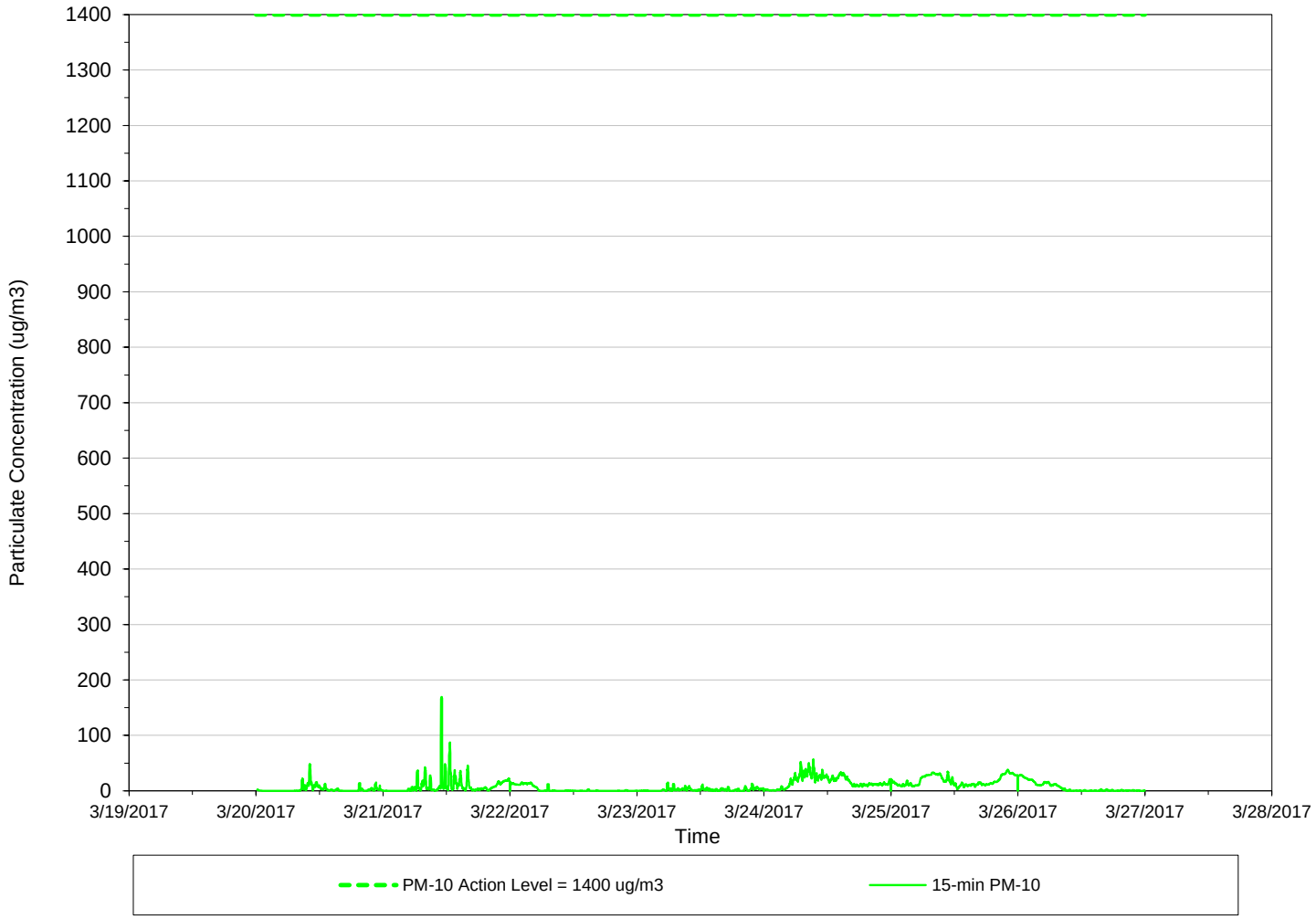
Figure 4. Relative humidity for the period 3/13/2017 through 3/19/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Mar27,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 8.43

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/20/2017	47.72
3/21/2017	169.48
3/22/2017	15.75
3/23/2017	15.05
3/24/2017	56.94
3/25/2017	38.35
3/26/2017	29.03

Wind Summary Statistics	
CALM	11%
UW	1%
UW/CW	0%
CW	0%
CW/DW	0%
DW	47%
DW/CW	6%
CW/UW	36%
TOTAL	100%

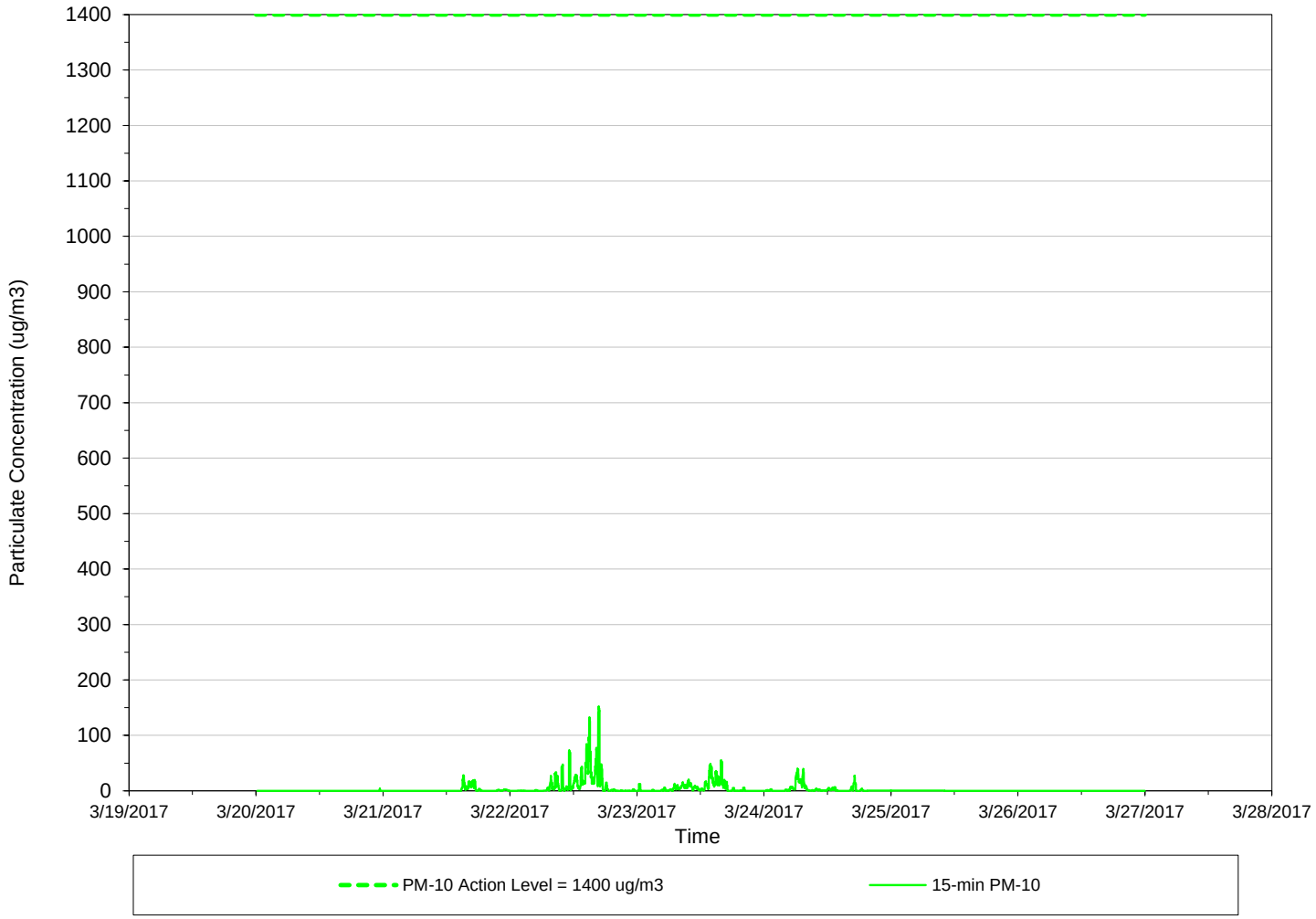
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PERIMETER AIR MONITORING SYSTEMS
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Mar27,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 3.18

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/20/2017	3.71
3/21/2017	28.03
3/22/2017	152.59
3/23/2017	55.30
3/24/2017	39.96
3/25/2017	0.61
3/26/2017	0.00

Wind Summary Statistics	
CALM	11%
UW	2%
UW/CW	1%
CW	42%
CW/DW	5%
DW	39%
DW/CW	0%
CW/UW	0%
TOTAL	100%

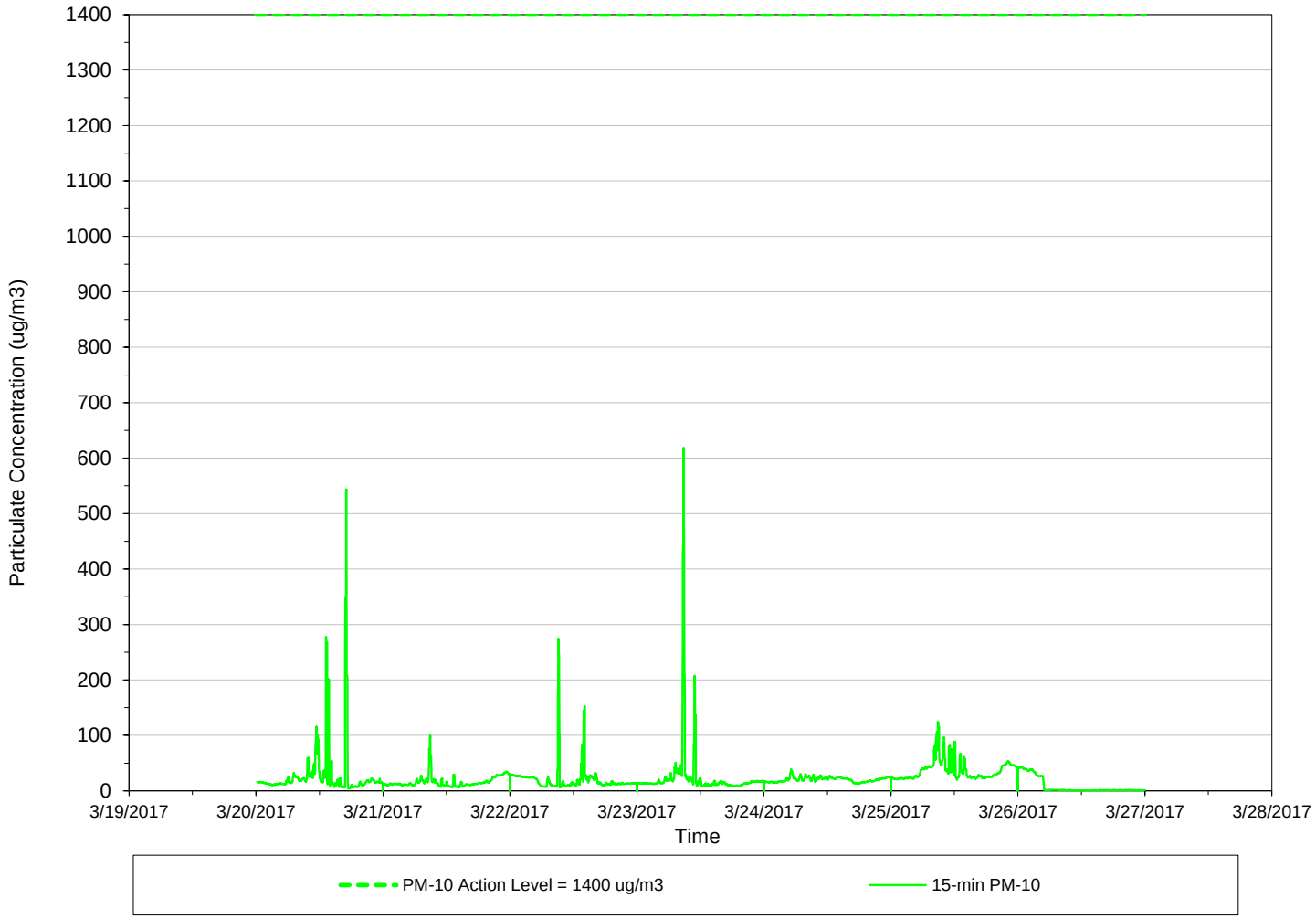
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Mar27,2017

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 = 22.68

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/20/2017	543.48
3/21/2017	99.96
3/22/2017	274.97
3/23/2017	618.78
3/24/2017	39.01
3/25/2017	124.78
3/26/2017	43.43

Wind Summary Statistics	
CALM	11%
UW	61%
UW/CW	0%
CW	0%
CW/DW	0%
DW	1%
DW/CW	0%
CW/UW	27%
TOTAL	100%

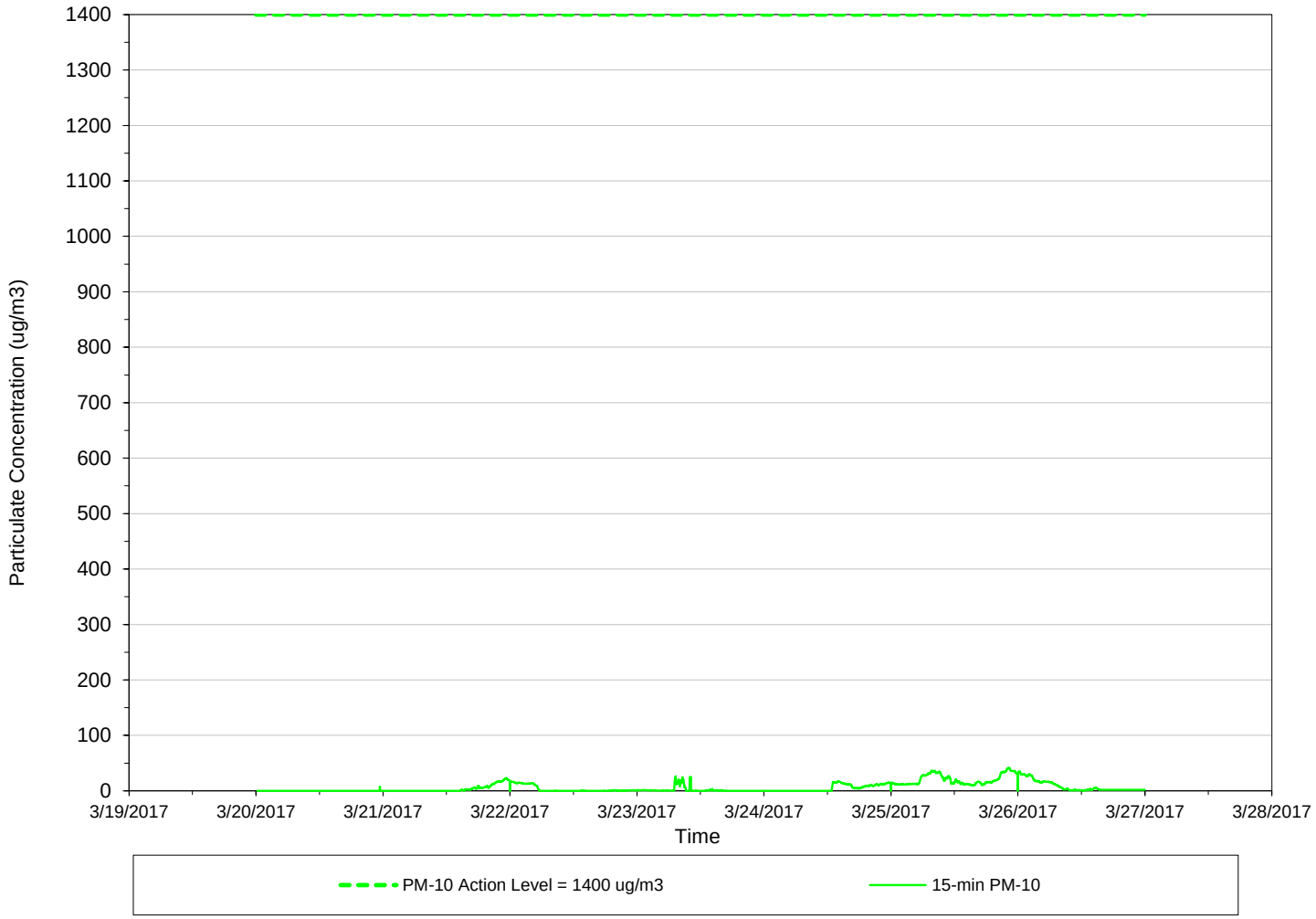
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\March 2017\STA3_WEEKLYMar17.xls

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PERIMETER AIR MONITORING SYSTEMS
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Mar27,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.06

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/20/2017	7.08
3/21/2017	22.75
3/22/2017	17.59
3/23/2017	26.30
3/24/2017	17.03
3/25/2017	41.91
3/26/2017	35.12

Wind Summary Statistics	
CALM	11%
UW	0%
UW/CW	0%
CW	50%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	39%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

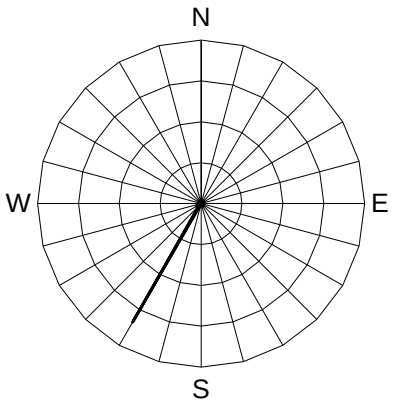


Figure 1. Wind rose for the period 3/20/2017 through 3/26/2017

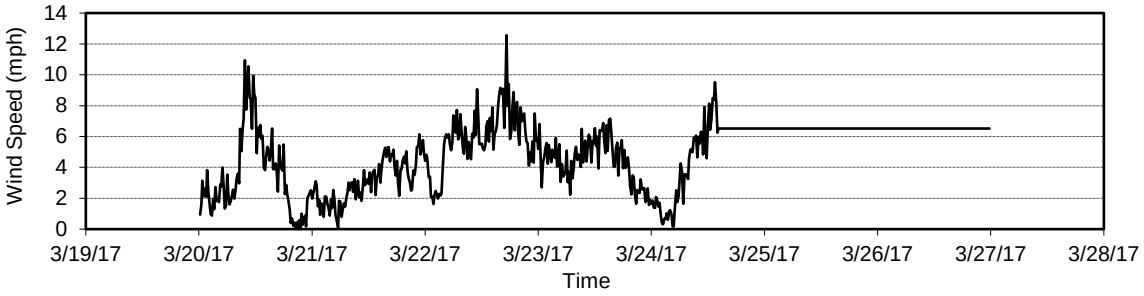


Figure 2. Wind speed for the period 3/20/2017 through 3/26/2017

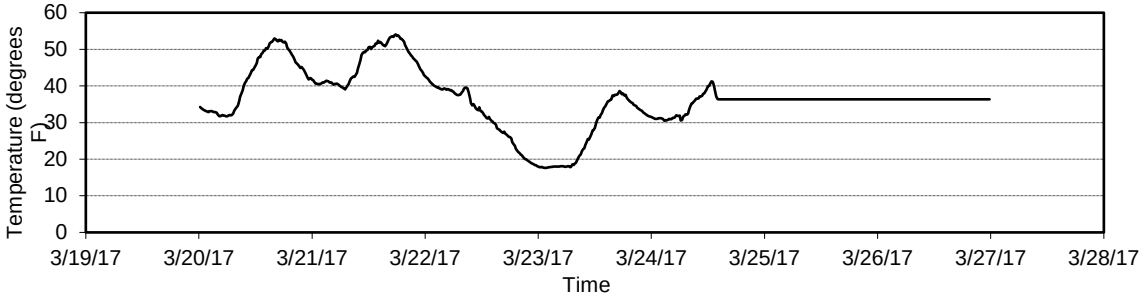


Figure 3. Temperature for the period 3/20/2017 through 3/26/2017

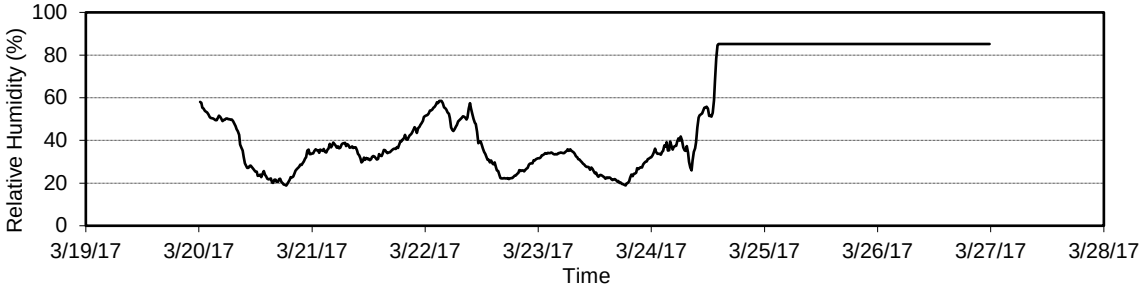


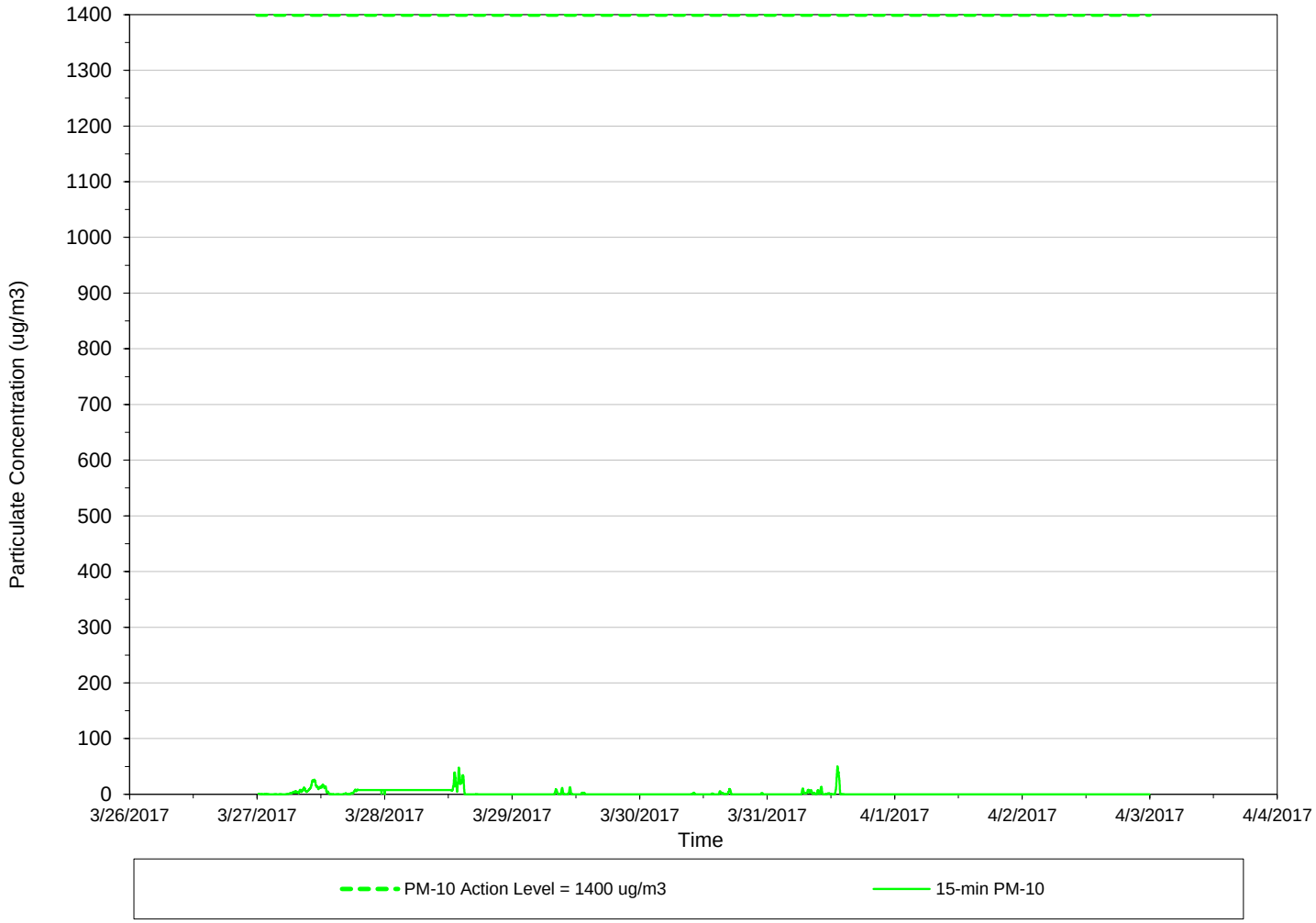
Figure 4. Relative humidity for the period 3/20/2017 through 3/26/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Apr03,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.97

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/27/2017	26.25
3/28/2017	48.10
3/29/2017	12.98
3/30/2017	9.39
3/31/2017	50.26
4/1/2017	0.00
4/2/2017	0.00

Wind Summary Statistics	
CALM	3%
UW	58%
UW/CW	0%
CW	0%
CW/DW	0%
DW	35%
DW/CW	0%
CW/UW	4%
TOTAL	100%

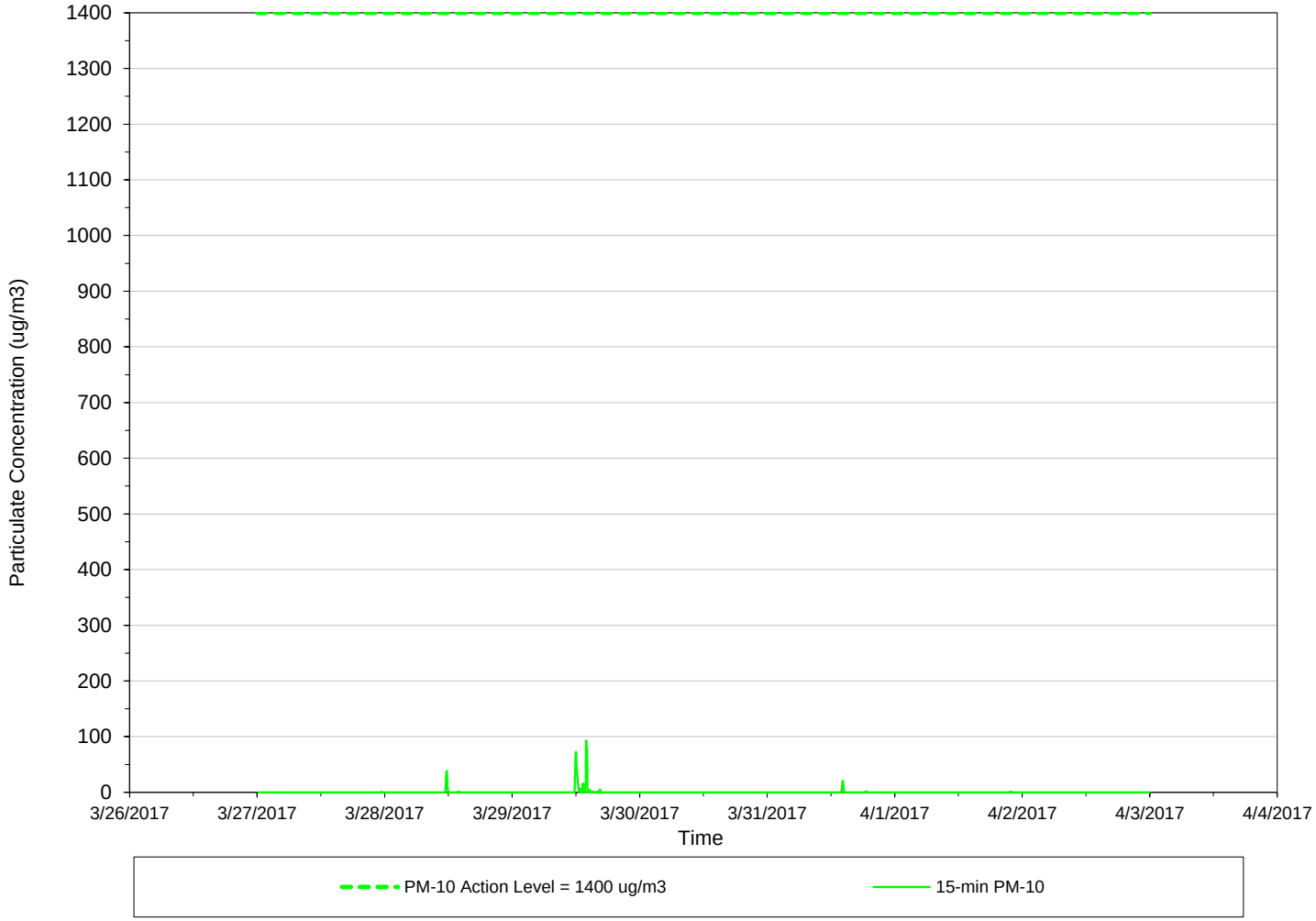
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Apr03,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.47

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/27/2017	0.55
3/28/2017	38.56
3/29/2017	93.20
3/30/2017	0.00
3/31/2017	20.68
4/1/2017	0.78
4/2/2017	0.15

Wind Summary Statistics	
CALM	3%
UW	0%
UW/CW	0%
CW	35%
CW/DW	0%
DW	62%
DW/CW	0%
CW/UW	0%
TOTAL	100%

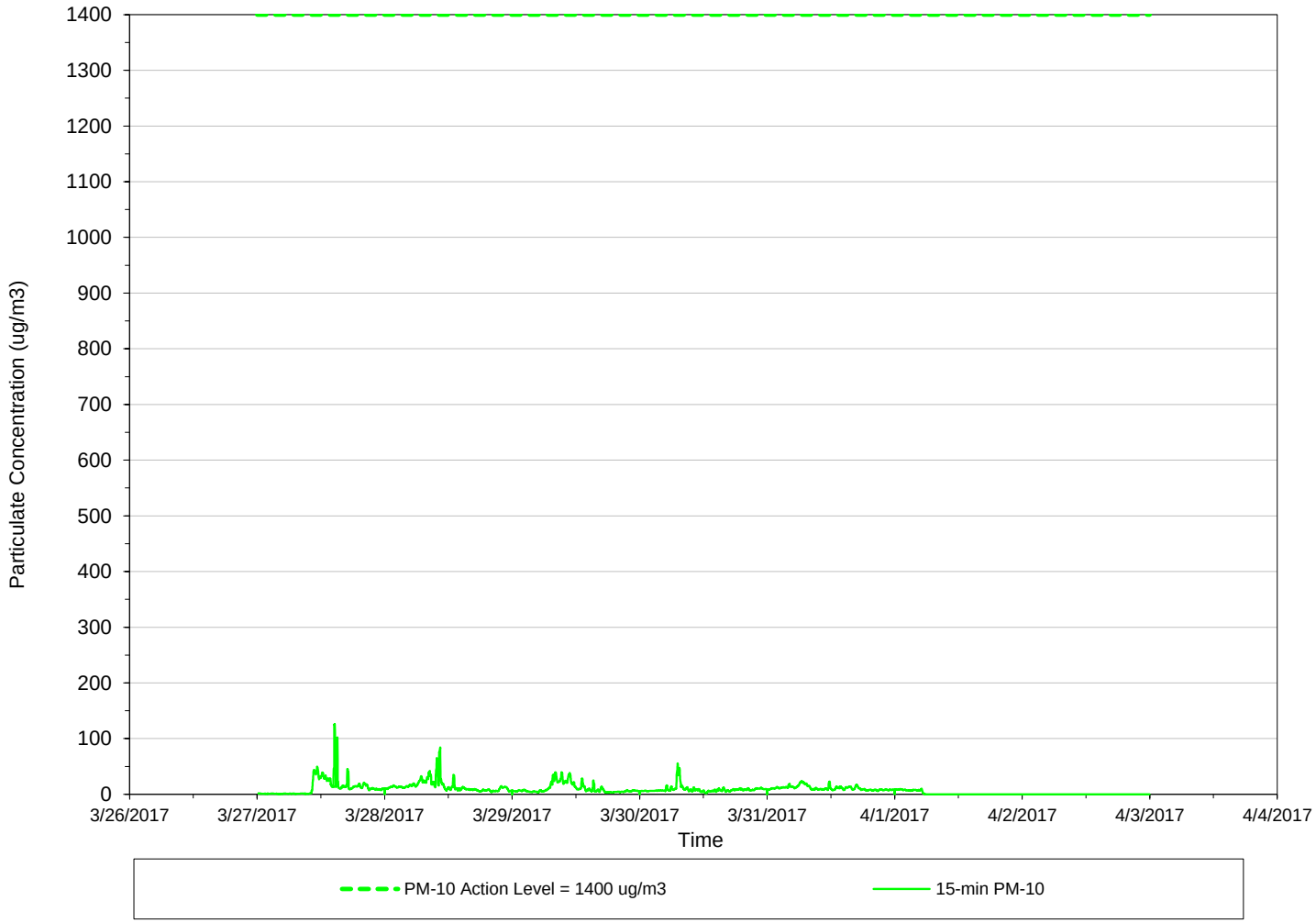
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Apr03,2017

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 = 8.53

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/27/2017	126.14
3/28/2017	83.73
3/29/2017	39.53
3/30/2017	55.69
3/31/2017	23.88
4/1/2017	9.88
4/2/2017	0.00

Wind Summary Statistics	
CALM	3%
UW	36%
UW/CW	0%
CW	0%
CW/DW	0%
DW	58%
DW/CW	0%
CW/UW	4%
TOTAL	100%

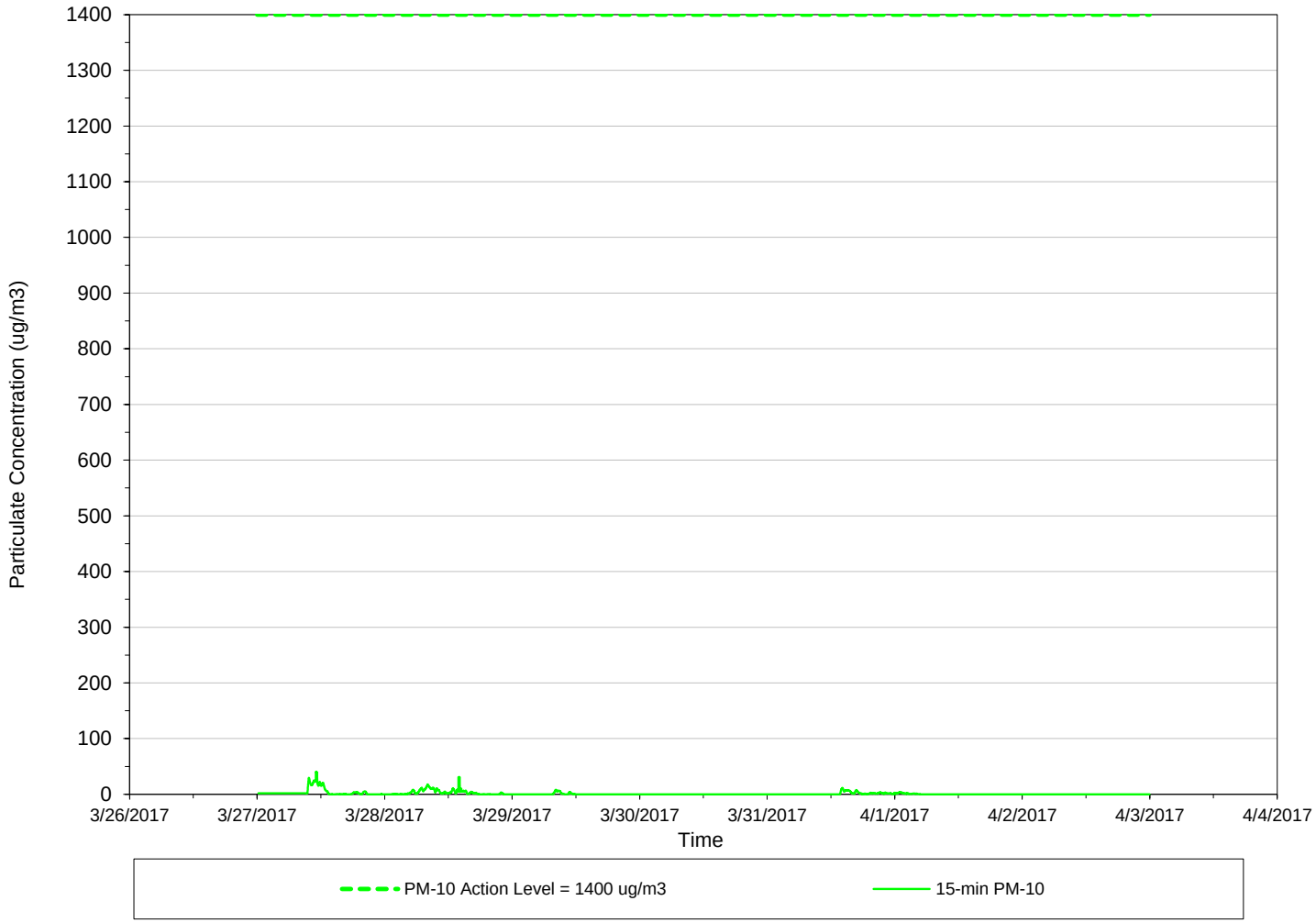
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Apr03,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.36

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
3/27/2017	40.47
3/28/2017	31.28
3/29/2017	7.97
3/30/2017	0.00
3/31/2017	11.65
4/1/2017	3.60
4/2/2017	0.00

Wind Summary Statistics	
CALM	3%
UW	0%
UW/CW	0%
CW	93%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	5%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

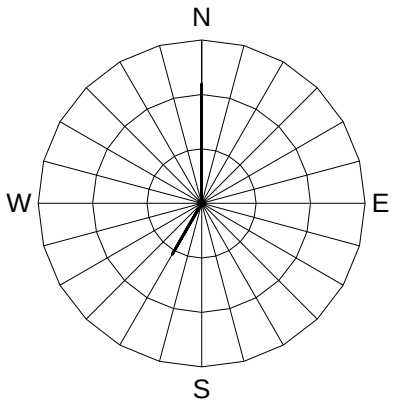


Figure 1. Wind rose for the period 3/27/2017 through 4/2/2017

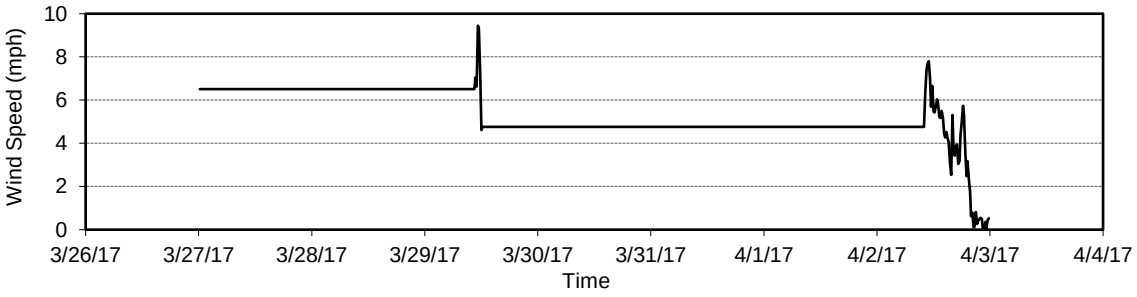


Figure 2. Wind speed for the period 3/27/2017 through 4/2/2017

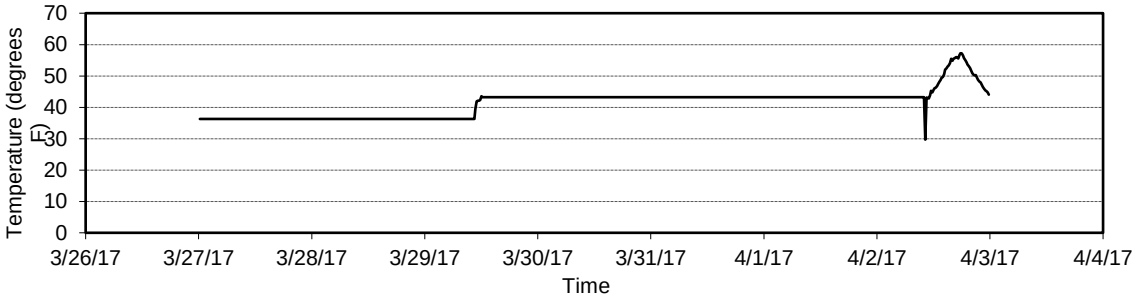


Figure 3. Temperature for the period 3/27/2017 through 4/2/2017

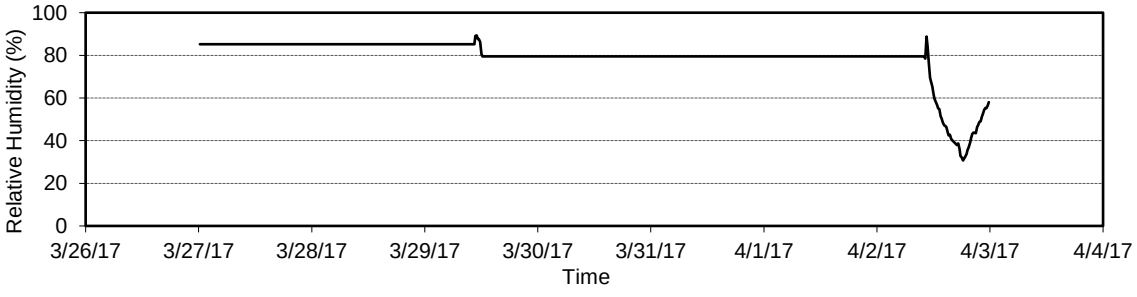


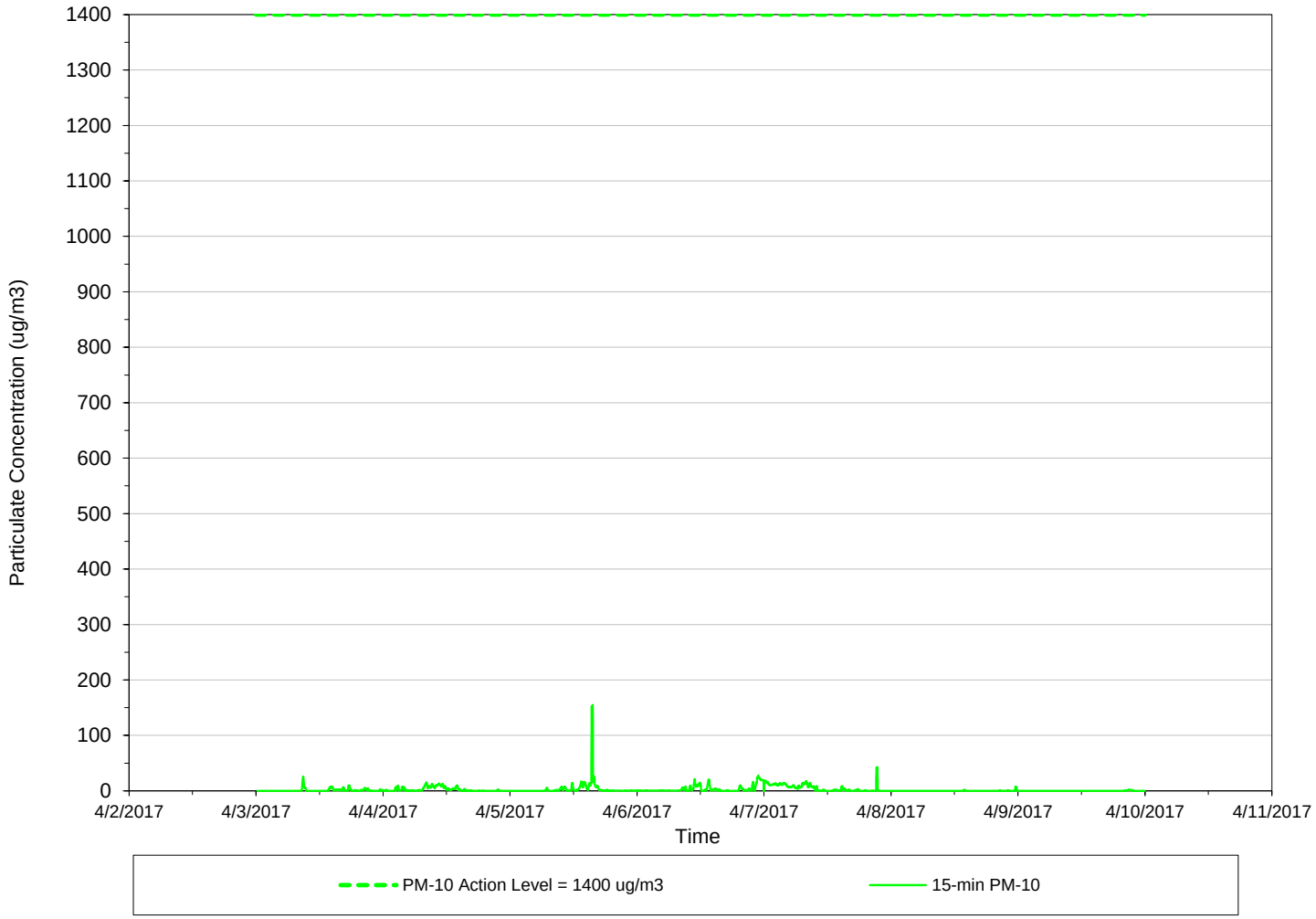
Figure 4. Relative humidity for the period 3/27/2017 through 4/2/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Apr10,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.39

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/3/2017	25.76
4/4/2017	15.06
4/5/2017	154.71
4/6/2017	27.64
4/7/2017	42.55
4/8/2017	7.73
4/9/2017	1.95

Wind Summary Statistics	
CALM	5%
UW	0%
UW/CW	0%
CW	0%
CW/DW	0%
DW	4%
DW/CW	13%
CW/UW	78%
TOTAL	100%

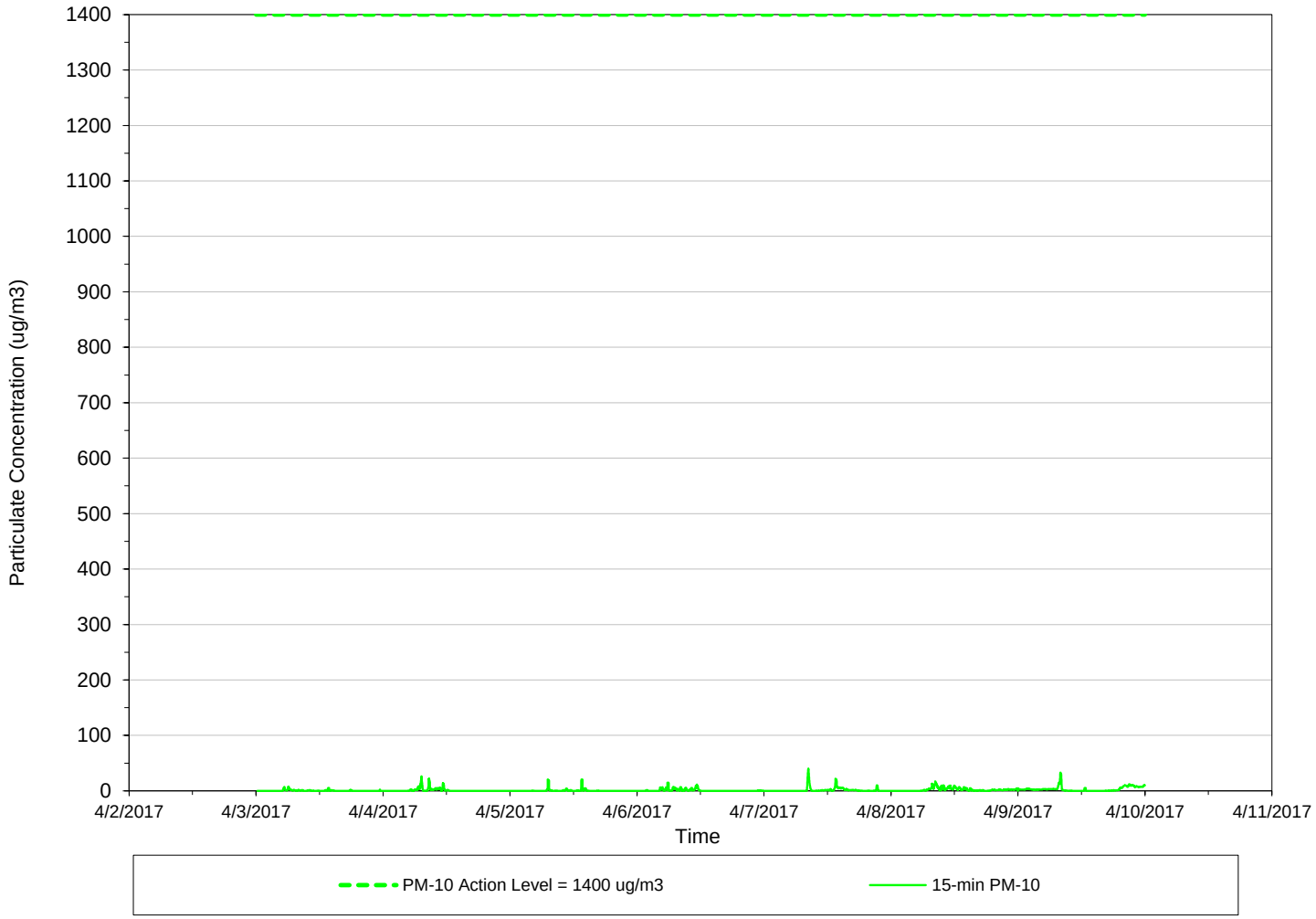
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Apr10,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.54

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/3/2017	7.54
4/4/2017	26.26
4/5/2017	20.62
4/6/2017	14.83
4/7/2017	39.81
4/8/2017	17.43
4/9/2017	33.22

Wind Summary Statistics	
CALM	5%
UW	0%
UW/CW	0%
CW	3%
CW/DW	12%
DW	80%
DW/CW	0%
CW/UW	0%
TOTAL	100%

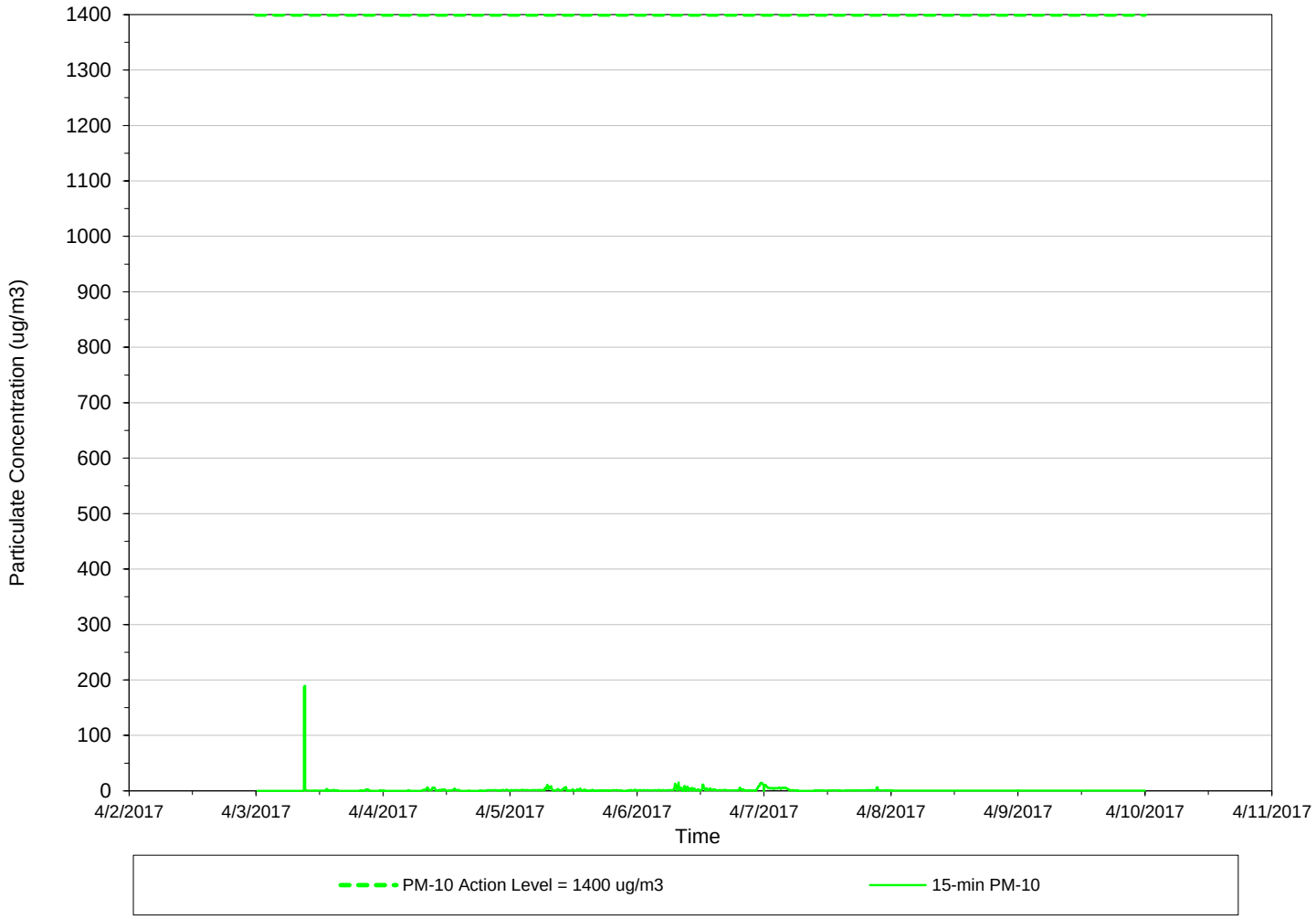
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Apr10,2017

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 = 1.40

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/3/2017	189.33
4/4/2017	6.56
4/5/2017	11.21
4/6/2017	15.28
4/7/2017	10.73
4/8/2017	0.80
4/9/2017	0.61

Wind Summary Statistics	
CALM	5%
UW	21%
UW/CW	0%
CW	0%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	74%
TOTAL	100%

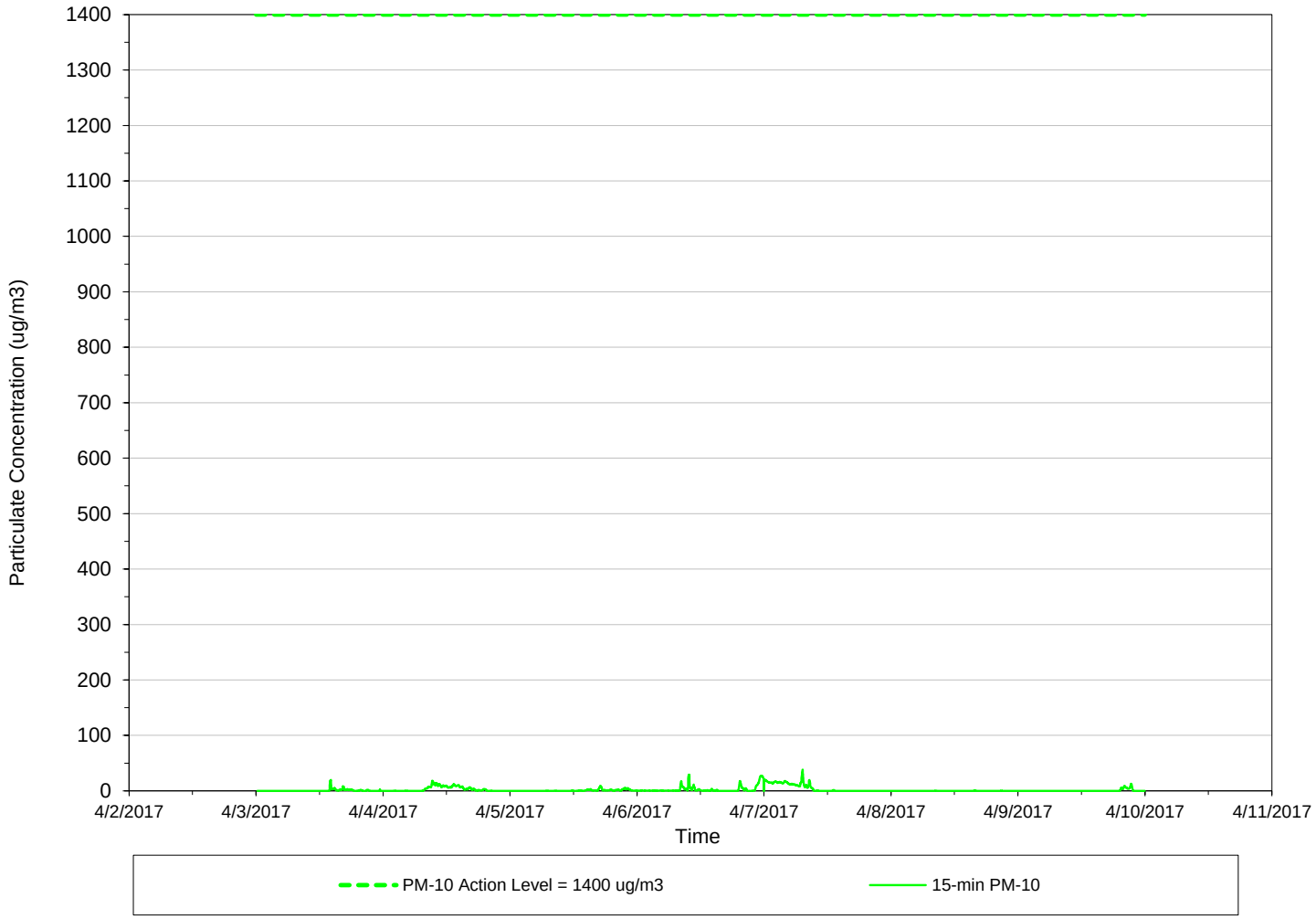
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PERIMETER AIR MONITORING SYSTEMS
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Apr10,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.95

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/3/2017	19.72
4/4/2017	18.40
4/5/2017	8.96
4/6/2017	29.29
4/7/2017	38.43
4/8/2017	0.81
4/9/2017	12.70

Wind Summary Statistics	
CALM	5%
UW	0%
UW/CW	0%
CW	15%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	80%
TOTAL	100%

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PERIMETER AIR MONITORING SYSTEMS
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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

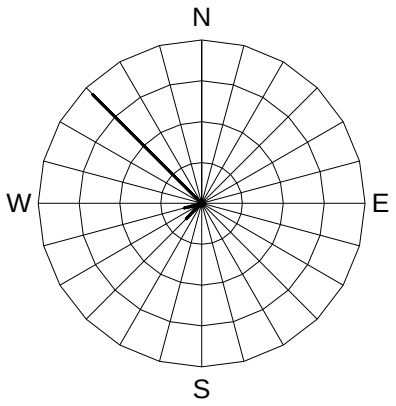


Figure 1. Wind rose for the period 4/3/2017 through 4/9/2017

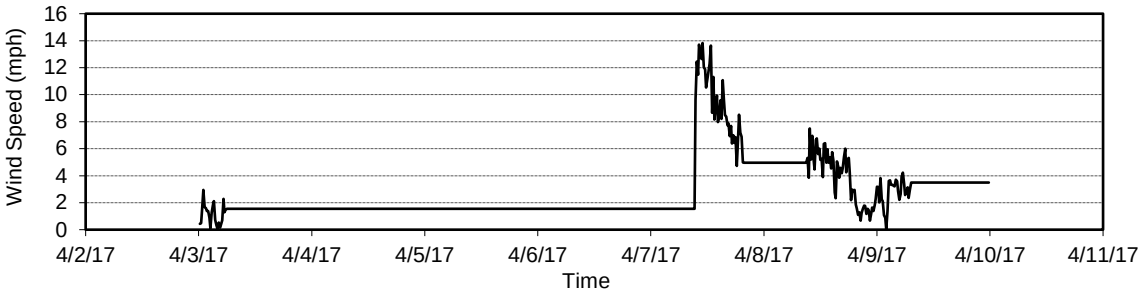


Figure 2. Wind speed for the period 4/3/2017 through 4/9/2017

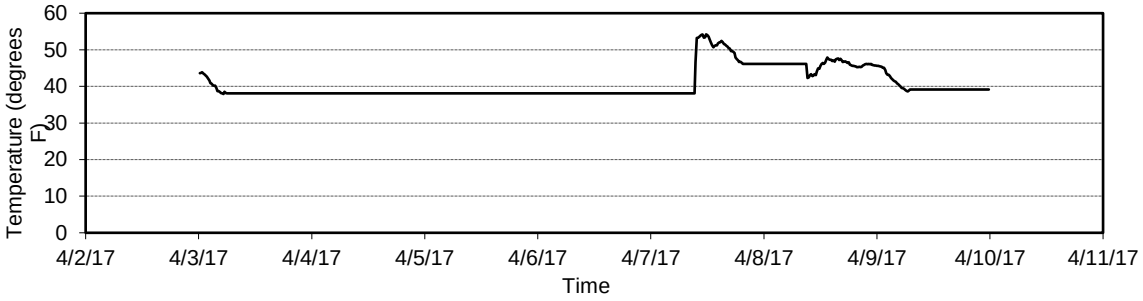


Figure 3. Temperature for the period 4/3/2017 through 4/9/2017

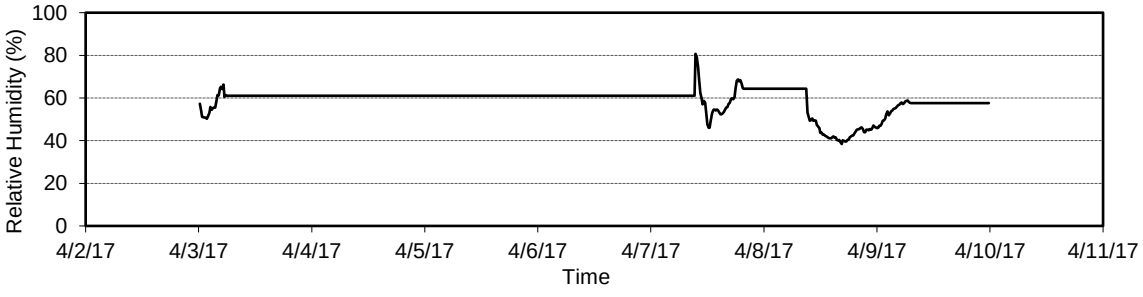


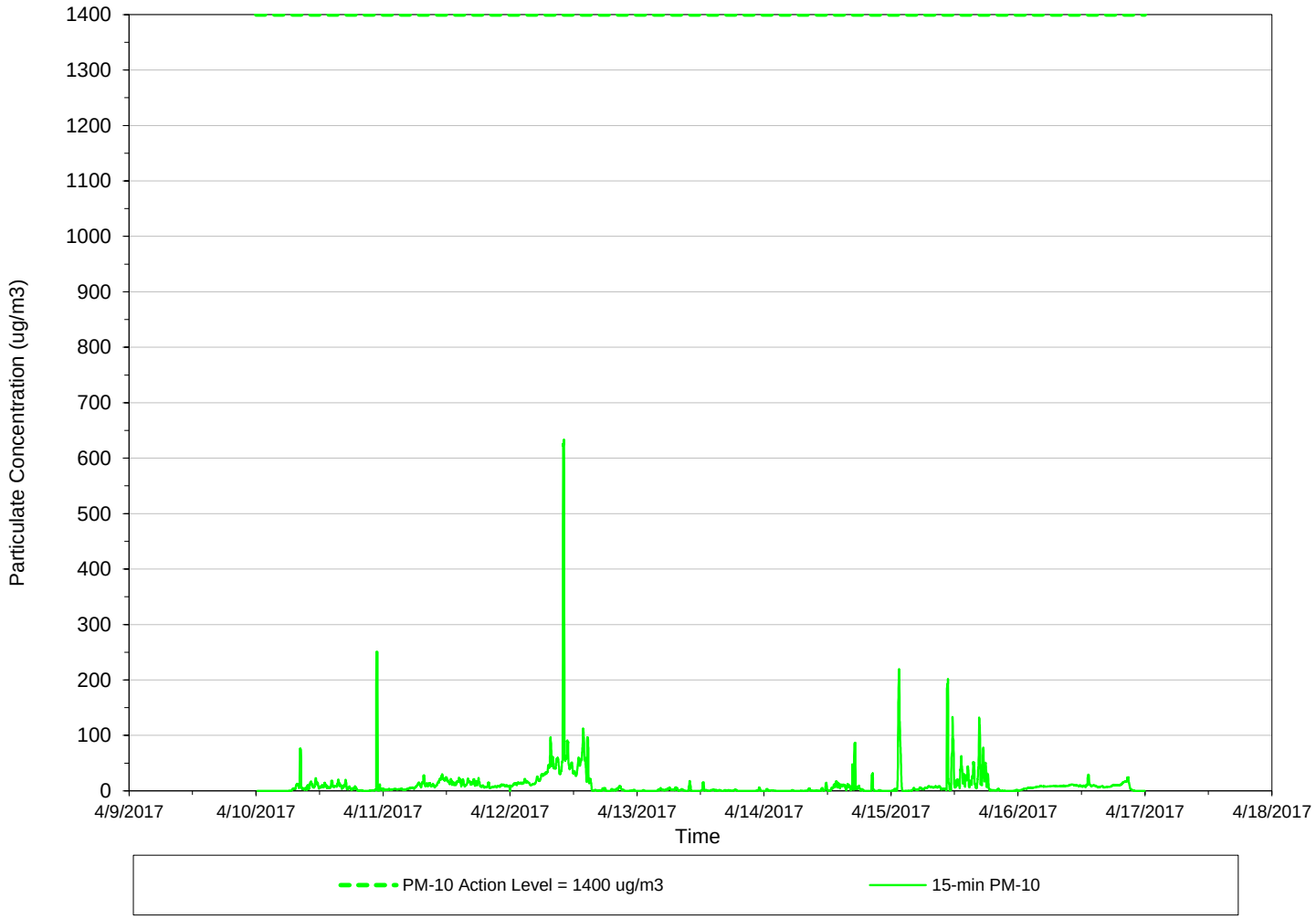
Figure 4. Relative humidity for the period 4/3/2017 through 4/9/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Apr17,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 11.11

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/10/2017	251.00
4/11/2017	30.00
4/12/2017	633.49
4/13/2017	17.72
4/14/2017	86.94
4/15/2017	219.28
4/16/2017	29.16

Wind Summary Statistics	
CALM	16%
UW	2%
UW/CW	0%
CW	0%
CW/DW	1%
DW	37%
DW/CW	28%
CW/UW	15%
TOTAL	100%

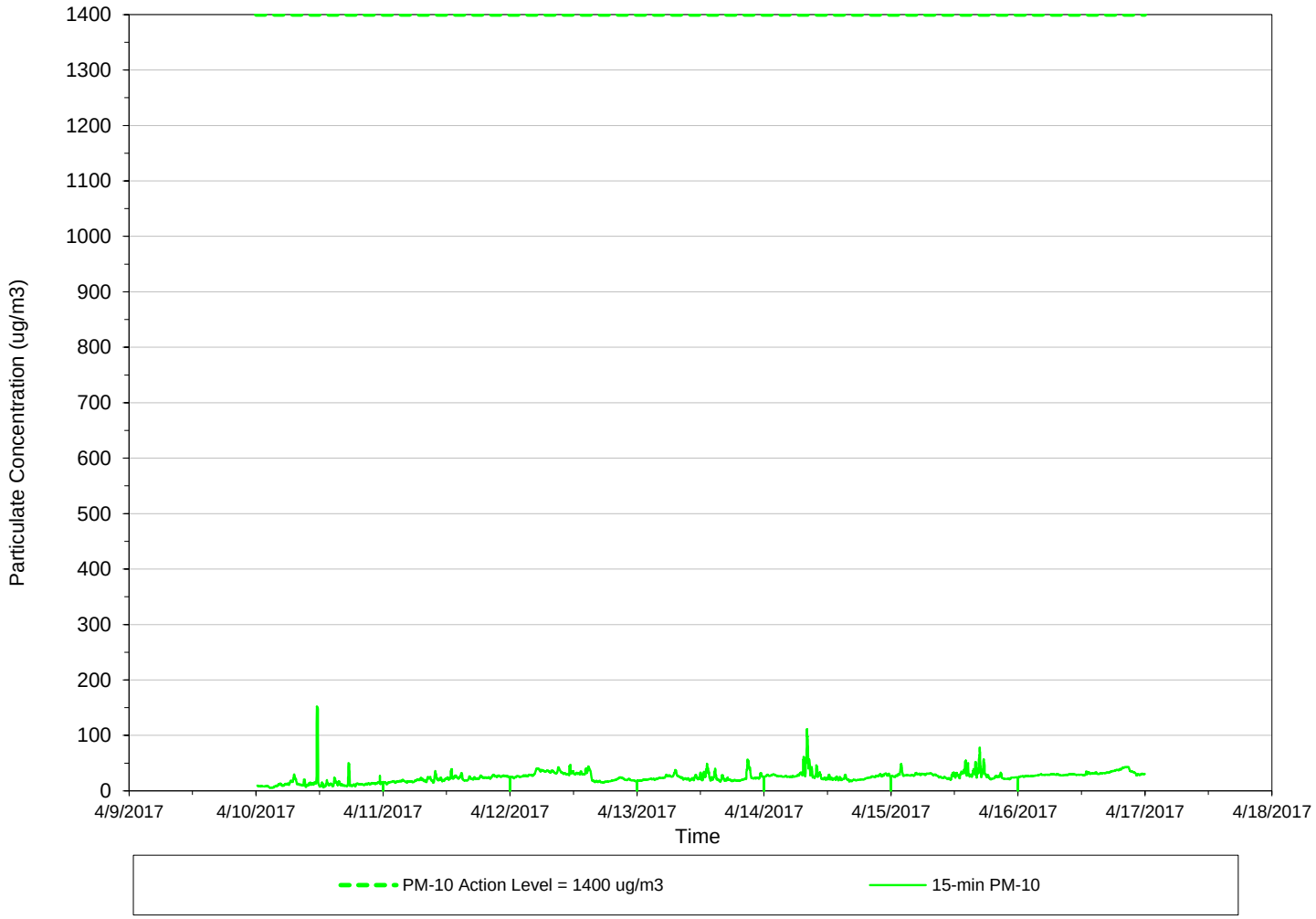
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Apr17,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 24.87

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/10/2017	152.29
4/11/2017	39.14
4/12/2017	46.91
4/13/2017	56.72
4/14/2017	111.13
4/15/2017	78.25
4/16/2017	43.35

Wind Summary Statistics	
CALM	16%
UW	9%
UW/CW	3%
CW	22%
CW/DW	28%
DW	21%
DW/CW	0%
CW/UW	0%
TOTAL	100%

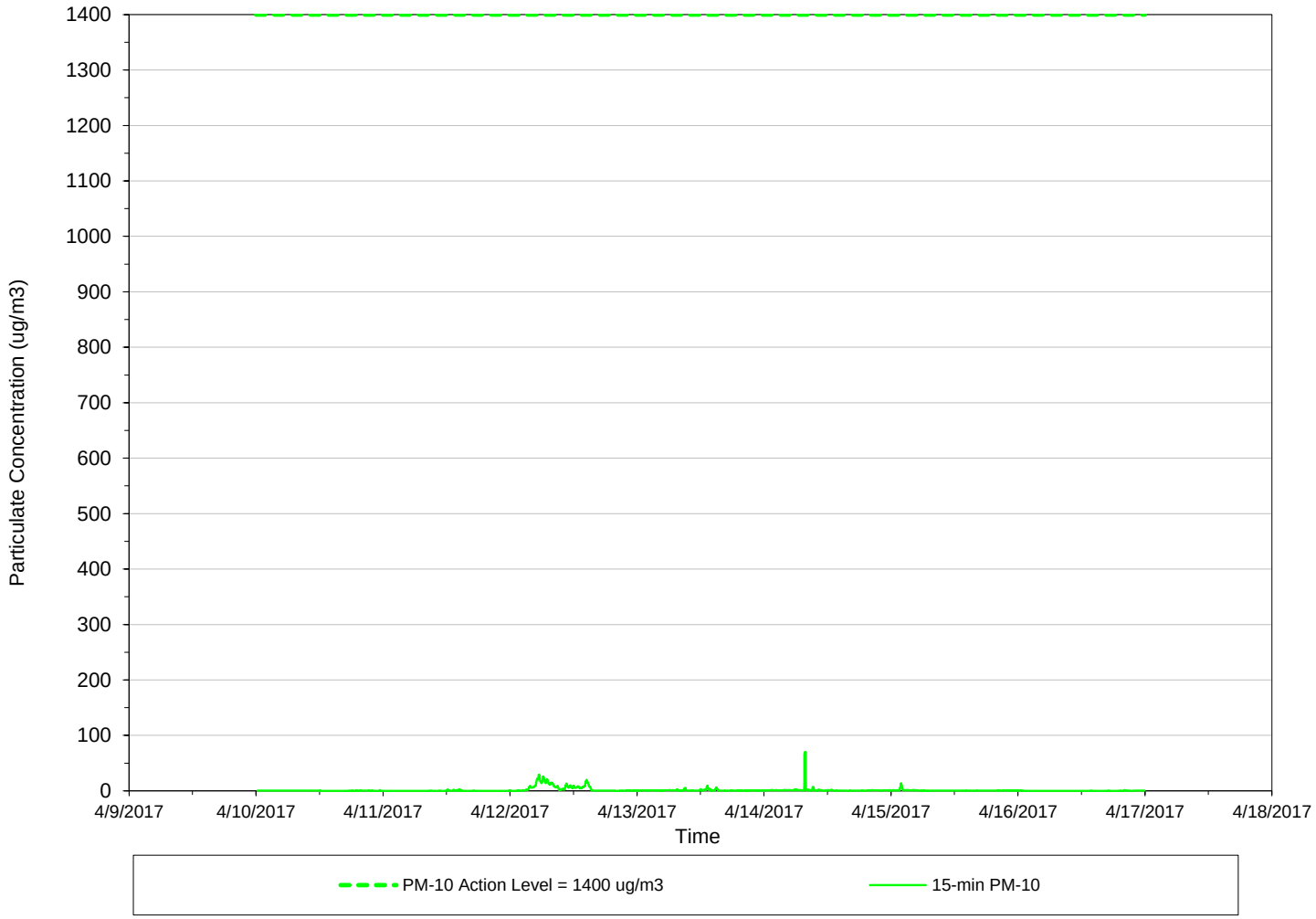
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PERIMETER AIR MONITORING SYSTEMS
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Apr17,2017

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 = 1.31

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/10/2017	1.47
4/11/2017	2.97
4/12/2017	29.24
4/13/2017	9.54
4/14/2017	70.02
4/15/2017	13.66
4/16/2017	1.15

Wind Summary Statistics	
CALM	16%
UW	69%
UW/CW	0%
CW	0%
CW/DW	0%
DW	6%
DW/CW	0%
CW/UW	10%
TOTAL	100%

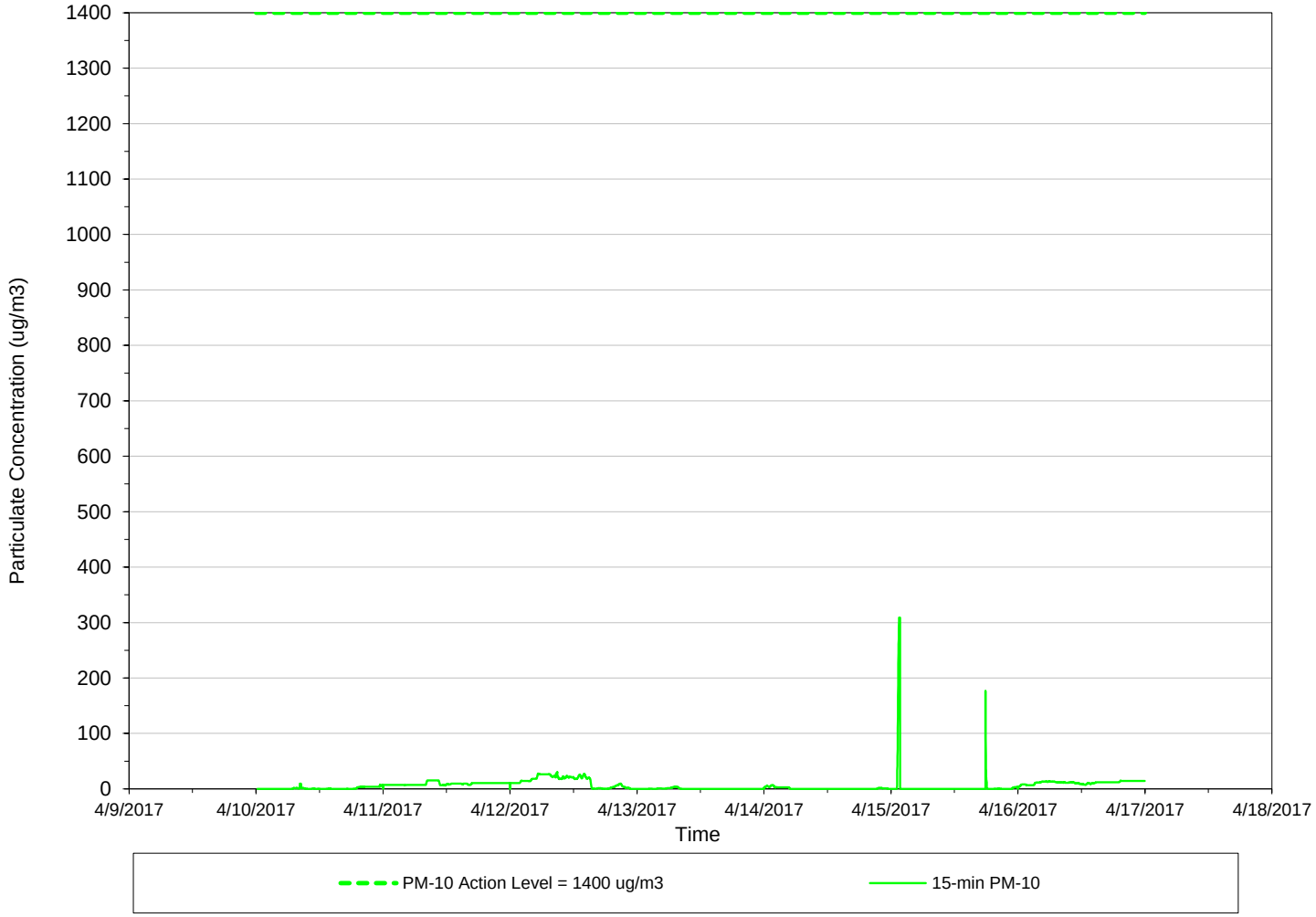
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PERIMETER AIR MONITORING SYSTEMS
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Apr17,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 35.85

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/10/2017	9.44
4/11/2017	15.44
4/12/2017	29.95
4/13/2017	4.17
4/14/2017	6.63
4/15/2017	308.97
4/16/2017	14.59

Wind Summary Statistics	
CALM	16%
UW	0%
UW/CW	0%
CW	59%
CW/DW	1%
DW	5%
DW/CW	0%
CW/UW	19%
TOTAL	100%

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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

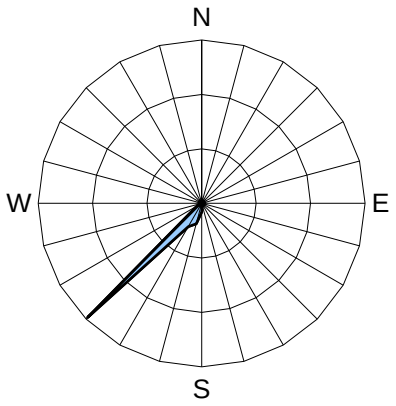


Figure 1. Wind rose for the period 4/10/2017 through 4/16/2017

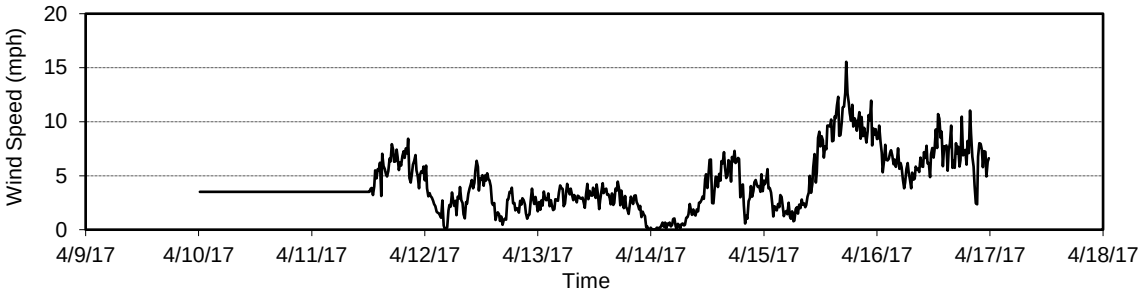


Figure 2. Wind speed for the period 4/10/2017 through 4/16/2017

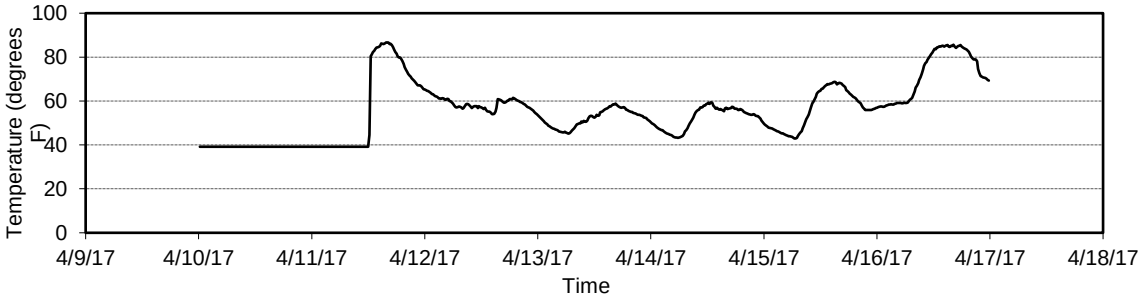


Figure 3. Temperature for the period 4/10/2017 through 4/16/2017

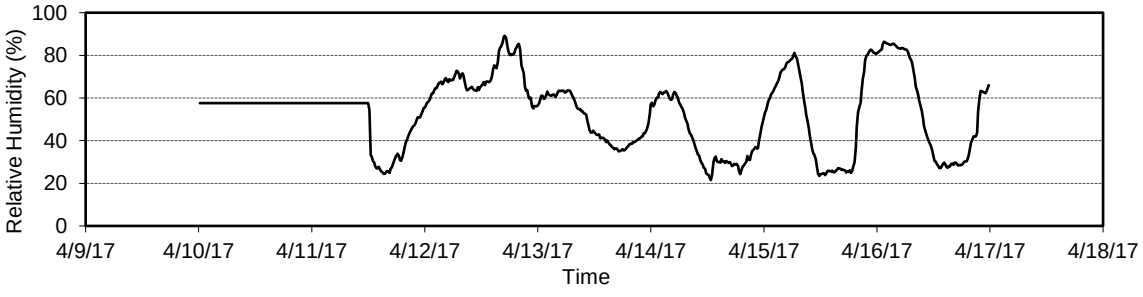


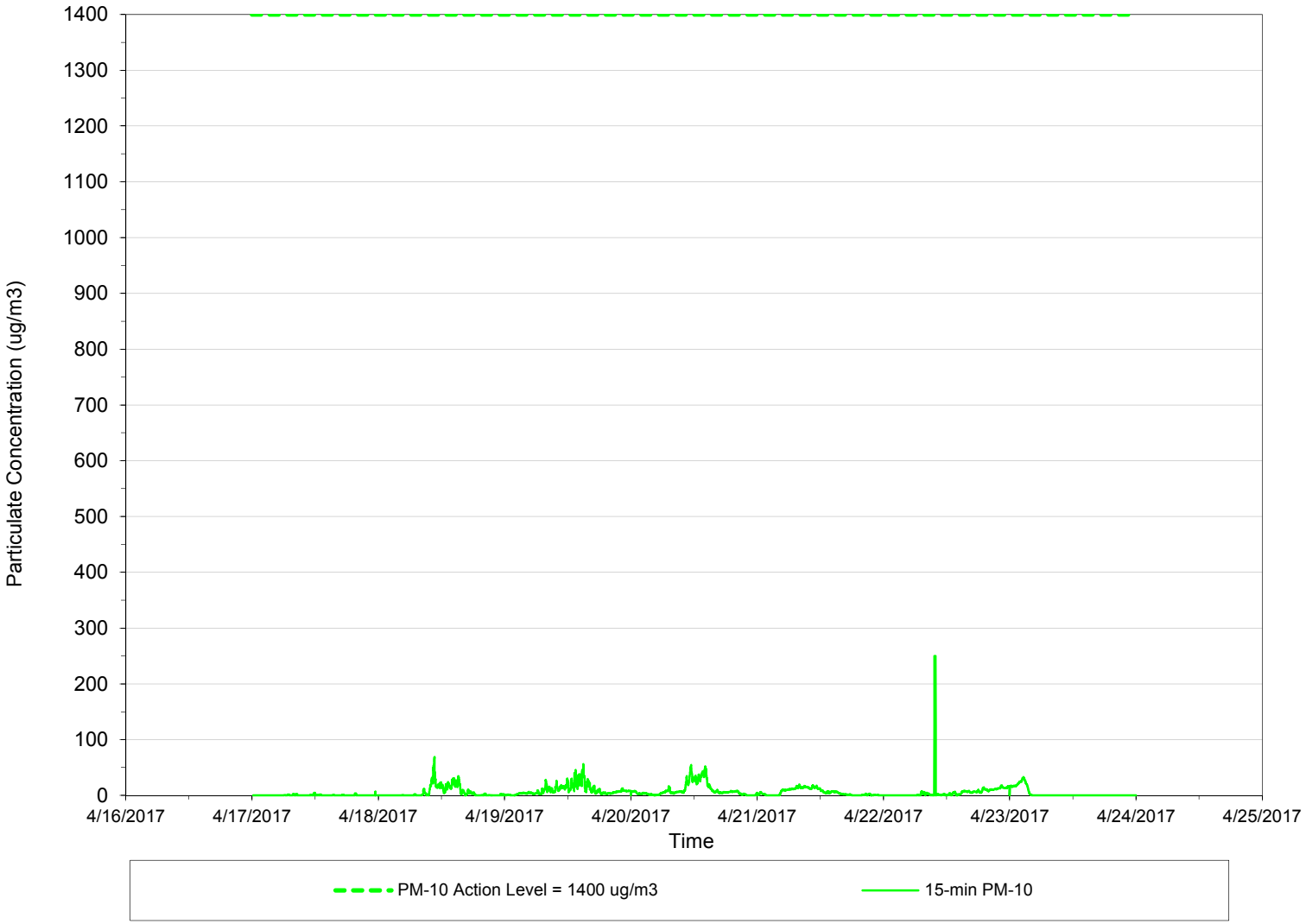
Figure 4. Relative humidity for the period 4/10/2017 through 4/16/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Apr24,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.08

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/17/2017	7.07
4/18/2017	69.01
4/19/2017	56.12
4/20/2017	54.50
4/21/2017	20.09
4/22/2017	250.13
4/23/2017	32.91

Wind Summary Statistics	
CALM	13%
UW	22%
UW/CW	0%
CW	0%
CW/DW	5%
DW	39%
DW/CW	4%
CW/UW	17%
	0%

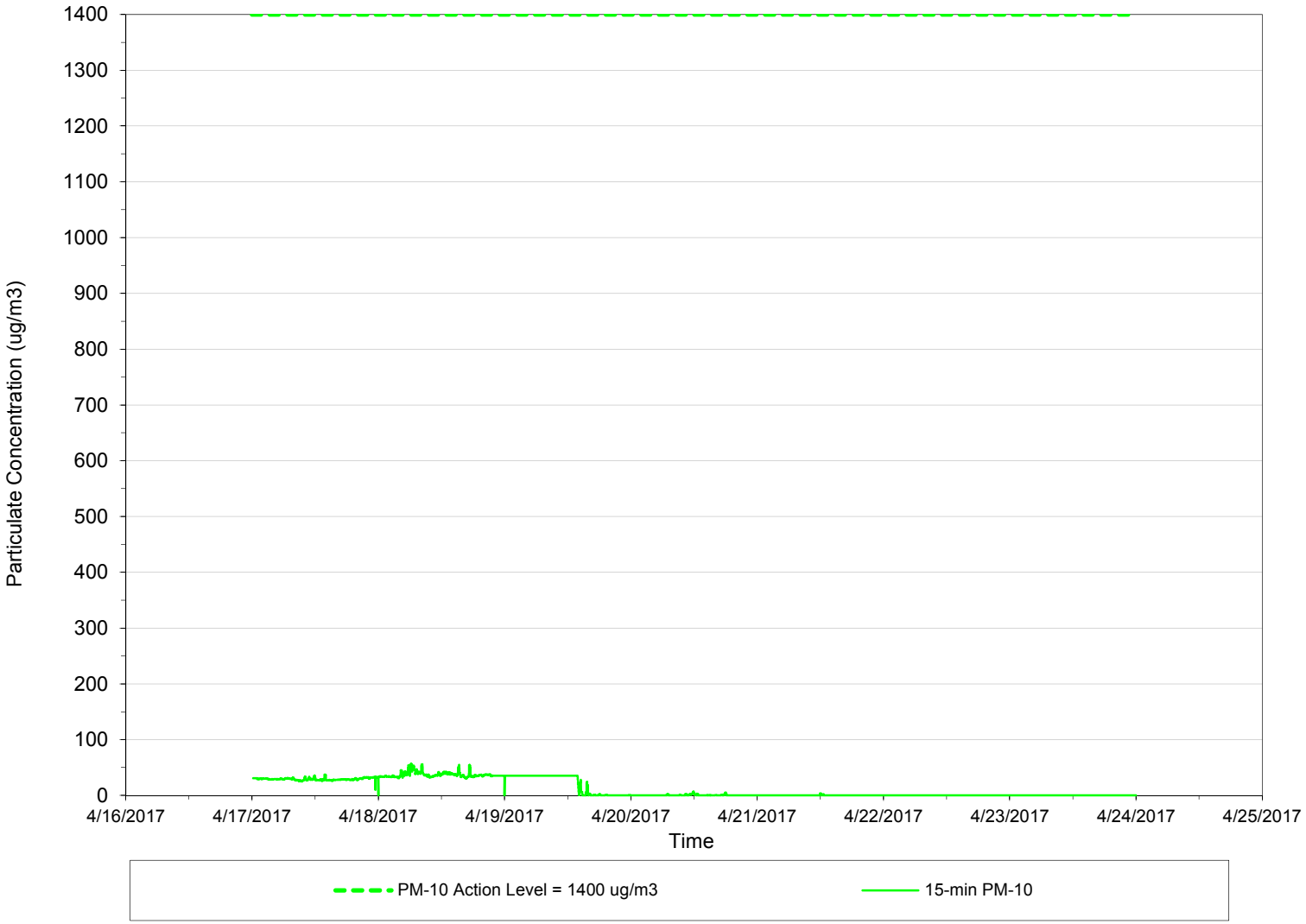
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Apr24,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 12.69

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/17/2017	37.54
4/18/2017	57.22
4/19/2017	35.58
4/20/2017	7.23
4/21/2017	3.47
4/22/2017	0.00
4/23/2017	0.00

Wind Summary Statistics	
CALM	13%
UW	25%
UW/CW	2%
CW	13%
CW/DW	4%
DW	41%
DW/CW	2%
CW/UW	1%
	0%

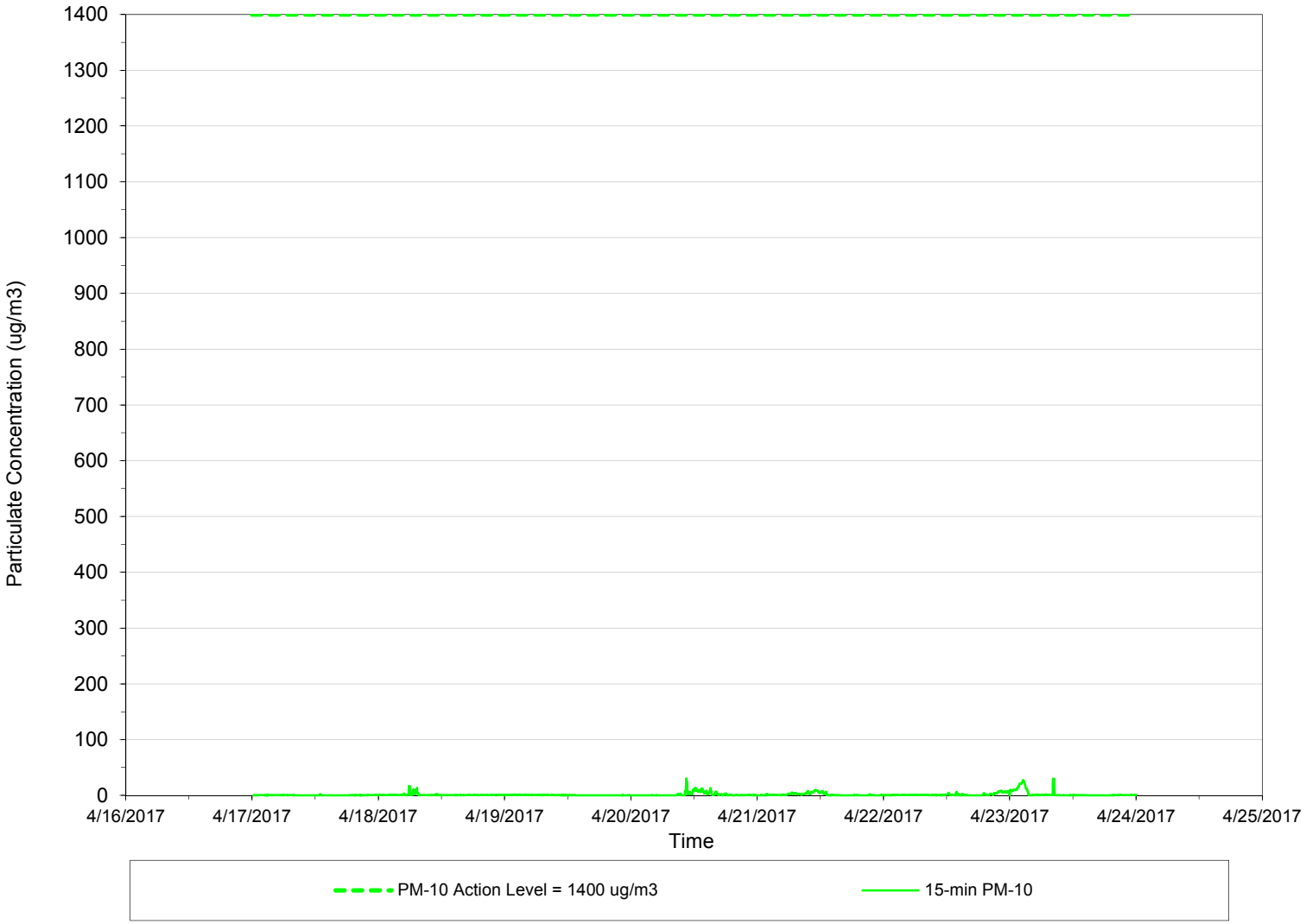
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Apr24,2017

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 = 1.52

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/17/2017	2.09
4/18/2017	17.09
4/19/2017	1.68
4/20/2017	30.55
4/21/2017	9.94
4/22/2017	8.55
4/23/2017	29.81

Wind Summary Statistics	
CALM	13%
UW	37%
UW/CW	0%
CW	0%
CW/DW	0%
DW	37%
DW/CW	0%
CW/UW	13%
	0%

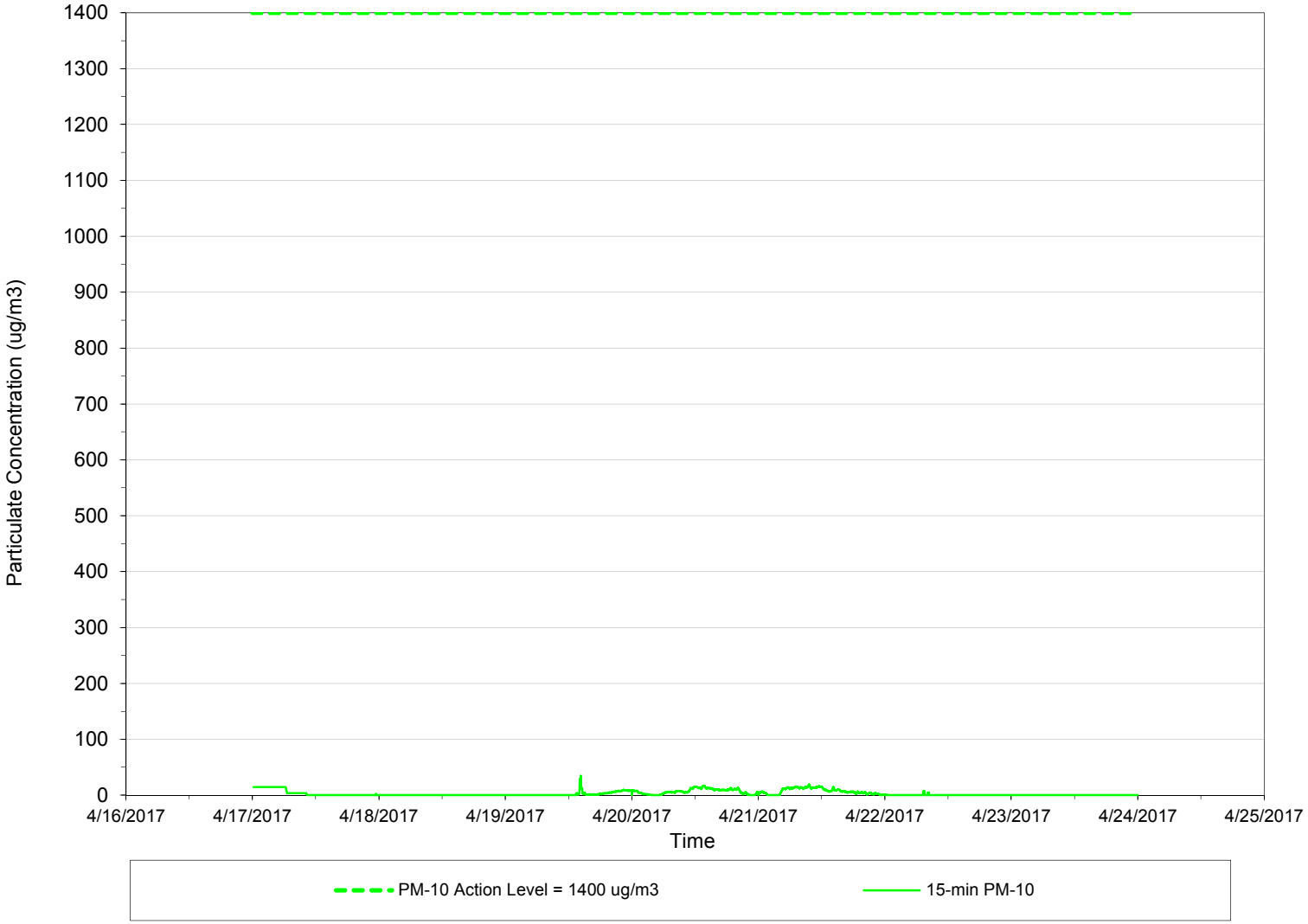
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\April 2017\STA3_WEEKLYApr17.xls

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Apr24,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 3.04

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/17/2017	14.47
4/18/2017	0.00
4/19/2017	34.91
4/20/2017	17.18
4/21/2017	19.86
4/22/2017	7.56
4/23/2017	0.00

Wind Summary Statistics	
CALM	13%
UW	0%
UW/CW	0%
CW	48%
CW/DW	5%
DW	14%
DW/CW	1%
CW/UW	19%
	0%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

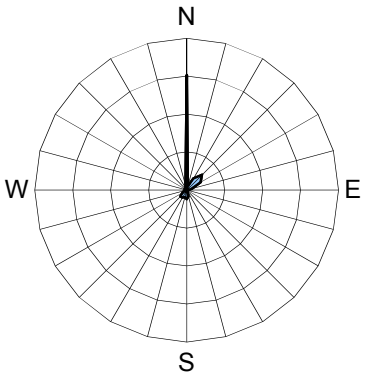


Figure 1. Wind rose for the period 4/17/2017 through 4/23/2017

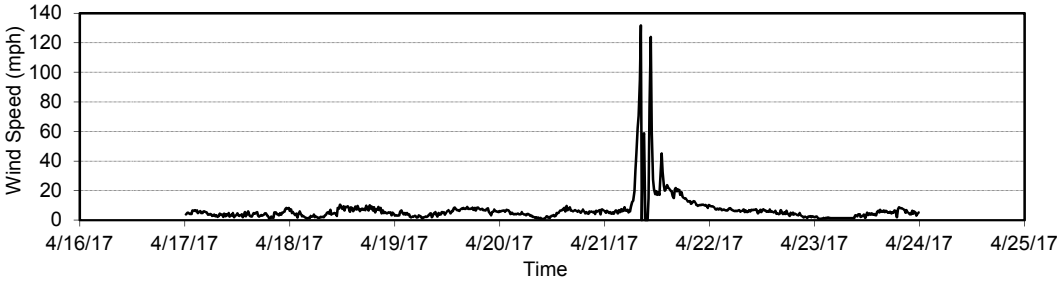


Figure 2. Wind speed for the period 4/17/2017 through 4/23/2017

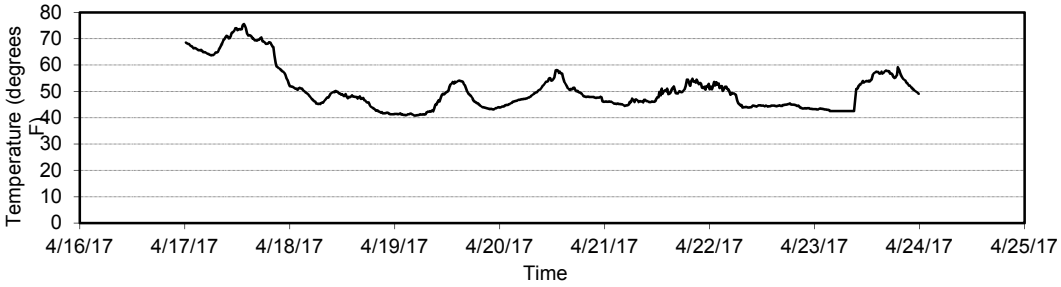


Figure 3. Temperature for the period 4/17/2017 through 4/23/2017

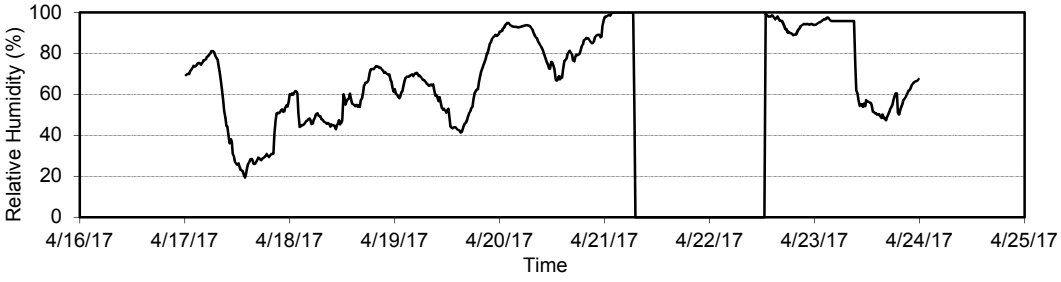


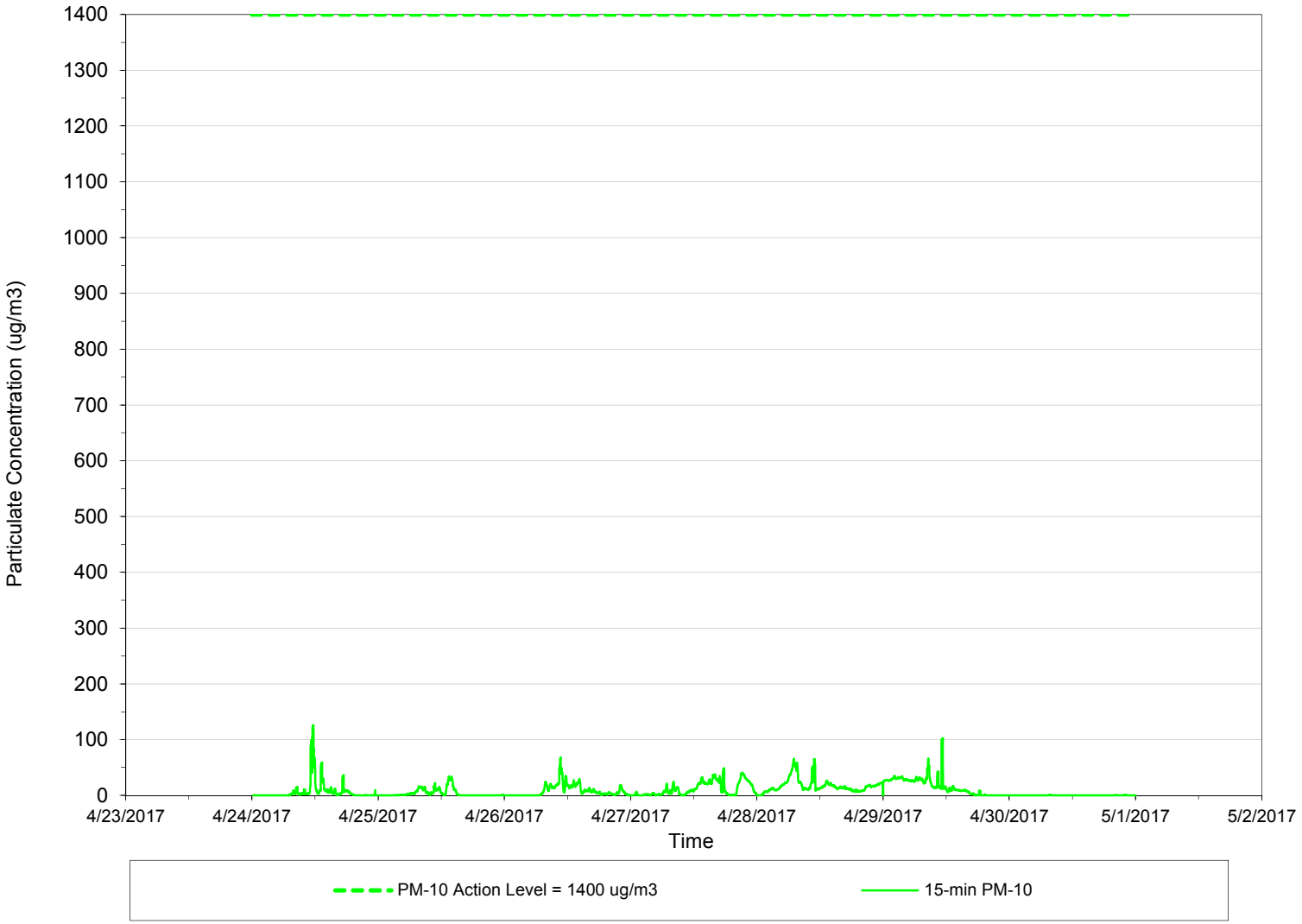
Figure 4. Relative humidity for the period 4/17/2017 through 4/23/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

May01,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 9.37

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/24/2017	125.79
4/25/2017	34.60
4/26/2017	68.56
4/27/2017	48.47
4/28/2017	66.10
4/29/2017	102.65
4/30/2017	1.30

Wind Summary Statistics	
CALM	3%
UW	13%
UW/CW	0%
CW	0%
CW/DW	2%
DW	11%
DW/CW	1%
CW/UW	70%
	0%

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May01,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.01

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/24/2017	0.02
4/25/2017	0.00
4/26/2017	7.58
4/27/2017	0.00
4/28/2017	0.00
4/29/2017	0.00
4/30/2017	0.00

Wind Summary Statistics	
CALM	3%
UW	6%
UW/CW	1%
CW	5%
CW/DW	1%
DW	79%
DW/CW	5%
CW/UW	0%
	0%

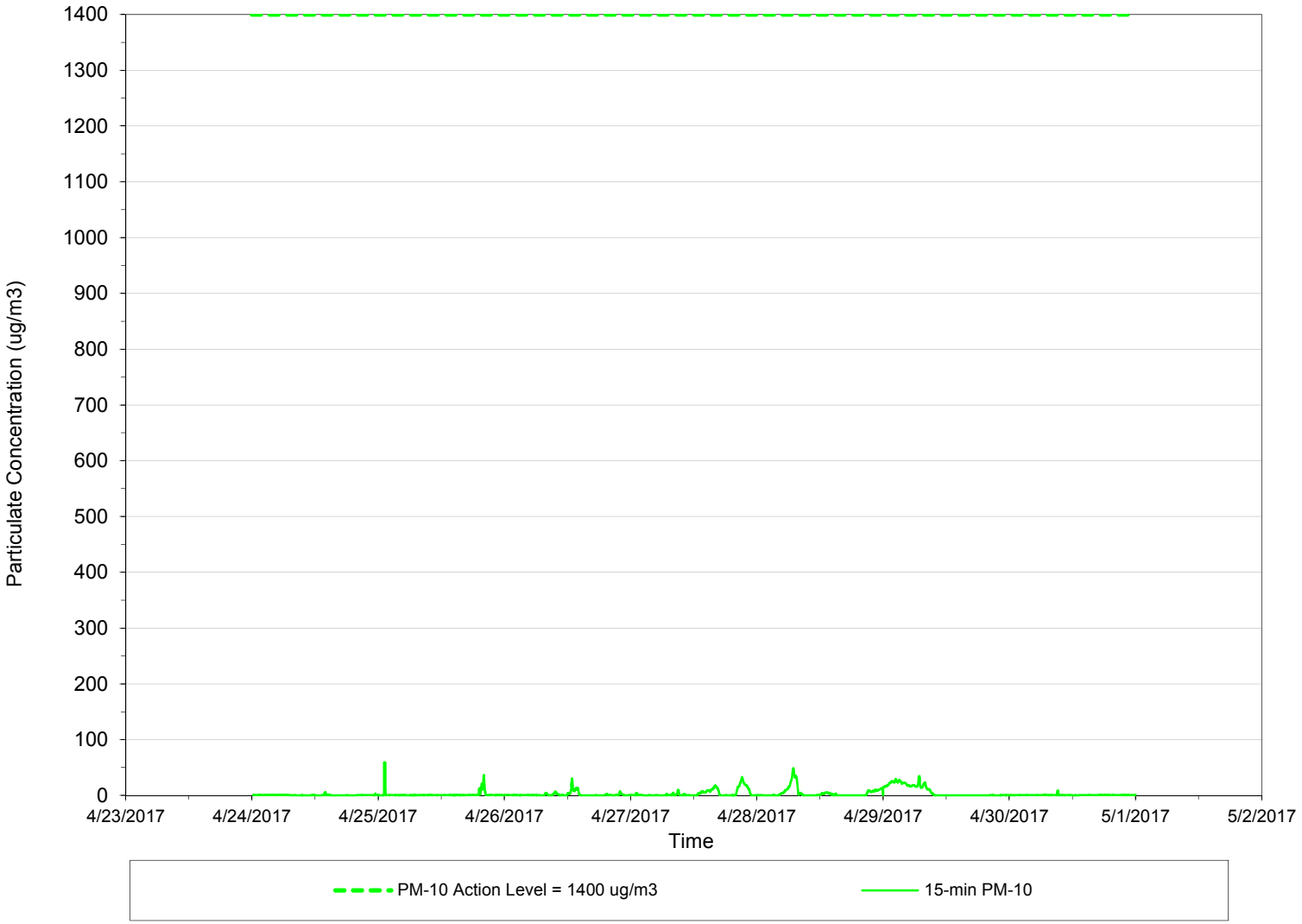
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AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 3.04

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/24/2017	5.69
4/25/2017	58.95
4/26/2017	30.79
4/27/2017	33.03
4/28/2017	49.27
4/29/2017	35.09
4/30/2017	8.73

Wind Summary Statistics	
CALM	3%
UW	11%
UW/CW	0%
CW	0%
CW/DW	0%
DW	17%
DW/CW	0%
CW/UW	69%
	0%

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May01,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
4/24/2017	0.00
4/25/2017	0.00
4/26/2017	0.00
4/27/2017	0.00
4/28/2017	0.00
4/29/2017	0.00
4/30/2017	0.00

Wind Summary Statistics	
CALM	3%
UW	0%
UW/CW	0%
CW	21%
CW/DW	2%
DW	3%
DW/CW	0%
CW/UW	71%
	0%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

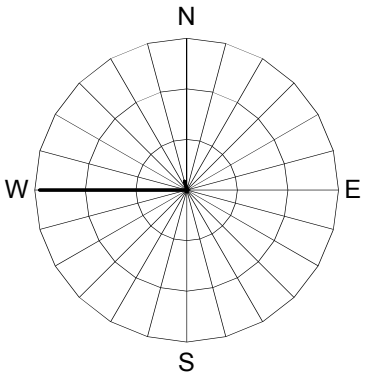


Figure 1. Wind rose for the period 4/24/2017 through 4/30/2017

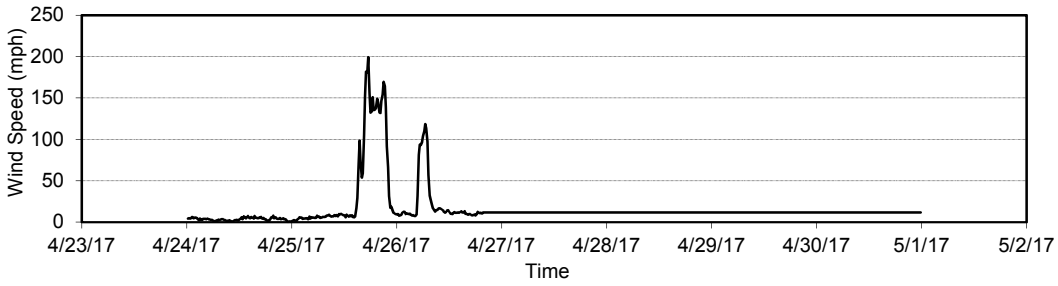


Figure 2. Wind speed for the period 4/24/2017 through 4/30/2017

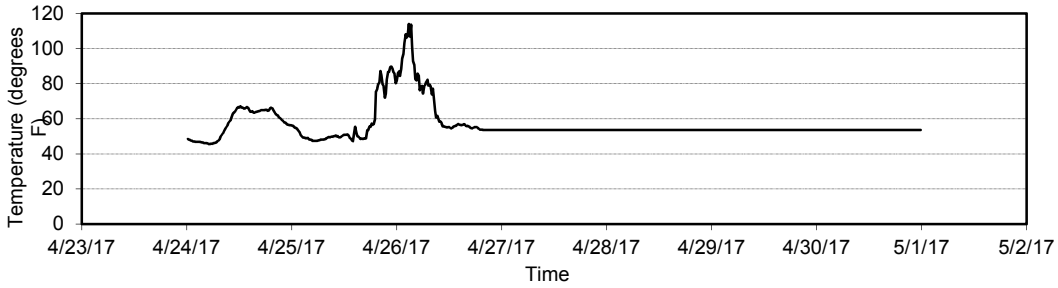


Figure 3. Temperature for the period 4/24/2017 through 4/30/2017

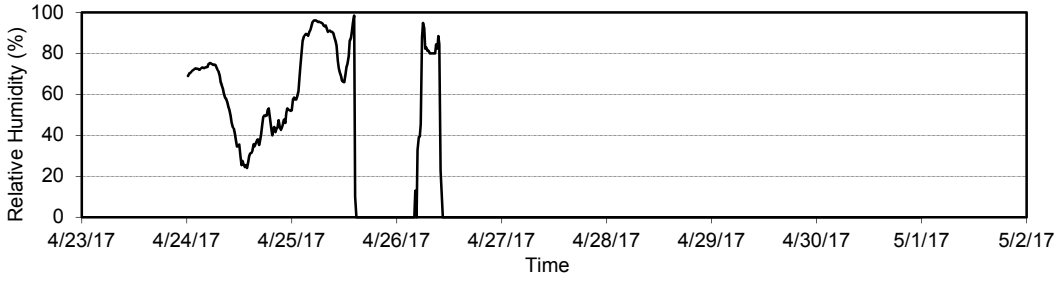


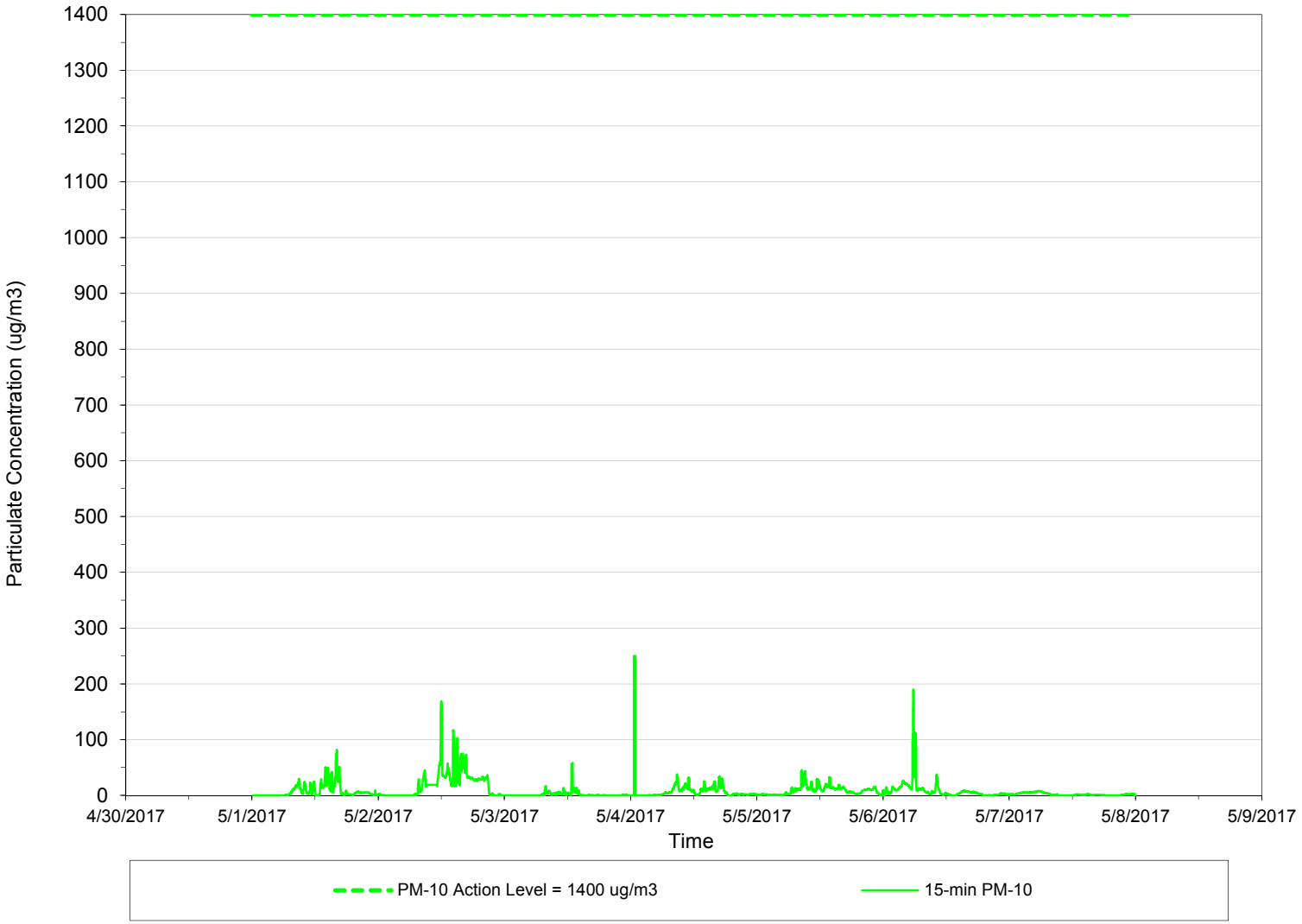
Figure 4. Relative humidity for the period 4/24/2017 through 4/30/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

May08,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 8.92

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/1/2017	81.84
5/2/2017	168.59
5/3/2017	58.39
5/4/2017	249.95
5/5/2017	45.16
5/6/2017	189.85
5/7/2017	8.06

Wind Summary Statistics	
CALM	5%
UW	6%
UW/CW	0%
CW	0%
CW/DW	2%
DW	37%
DW/CW	2%
CW/UW	47%
	0%

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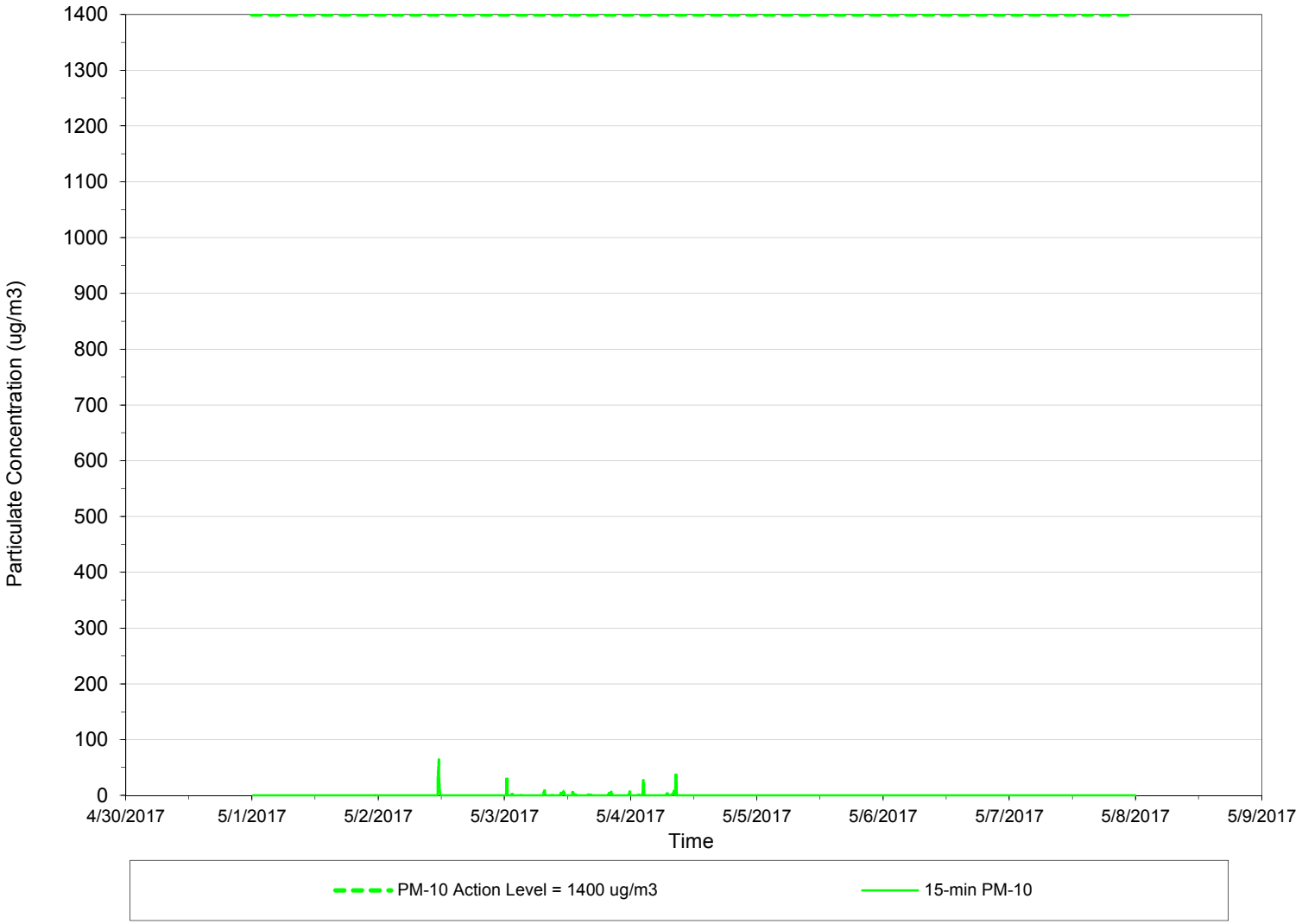
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May08,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.38

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/1/2017	0.44
5/2/2017	64.82
5/3/2017	30.00
5/4/2017	37.42
5/5/2017	0.00
5/6/2017	0.31
5/7/2017	0.38

Wind Summary Statistics	
CALM	5%
UW	20%
UW/CW	4%
CW	13%
CW/DW	2%
DW	52%
DW/CW	3%
CW/UW	0%
	0%

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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 = 1.17

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/1/2017	6.16
5/2/2017	20.47
5/3/2017	2.56
5/4/2017	9.98
5/5/2017	1.29
5/6/2017	0.99
5/7/2017	1.22

Wind Summary Statistics	
CALM	5%
UW	36%
UW/CW	0%
CW	0%
CW/DW	0%
DW	14%
DW/CW	0%
CW/UW	45%
	0%

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PERIMETER AIR MONITORING SYSTEMS
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May08,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/1/2017	0.00
5/2/2017	0.00
5/3/2017	0.00
5/4/2017	0.00
5/5/2017	0.00
5/6/2017	0.00
5/7/2017	0.00

Wind Summary Statistics	
CALM	5%
UW	0%
UW/CW	0%
CW	33%
CW/DW	2%
DW	10%
DW/CW	1%
CW/UW	48%
	0%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

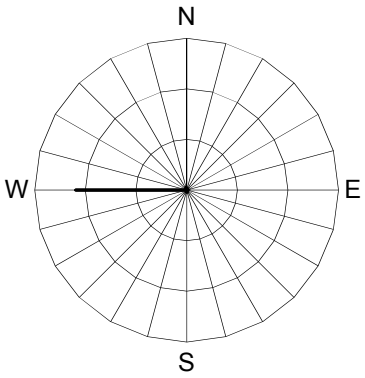


Figure 1. Wind rose for the period 5/1/2017 through 5/7/2017

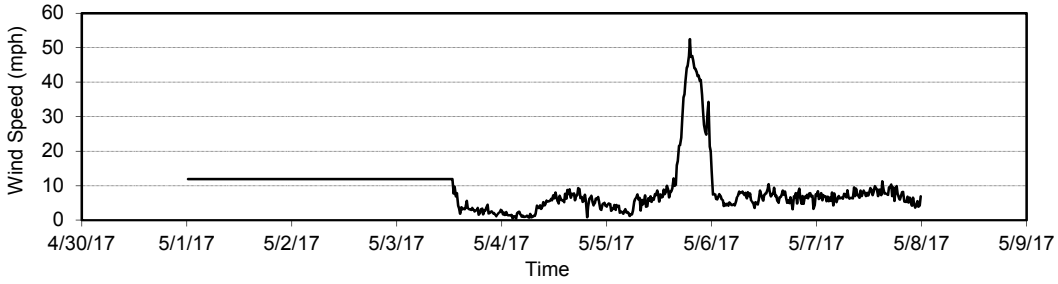


Figure 2. Wind speed for the period 5/1/2017 through 5/7/2017

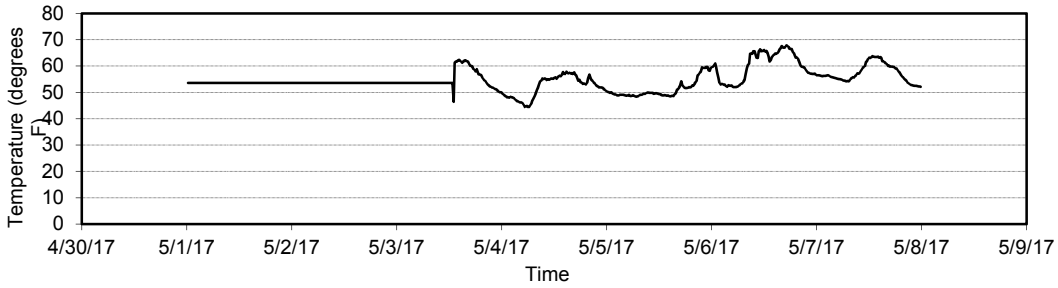


Figure 3. Temperature for the period 5/1/2017 through 5/7/2017

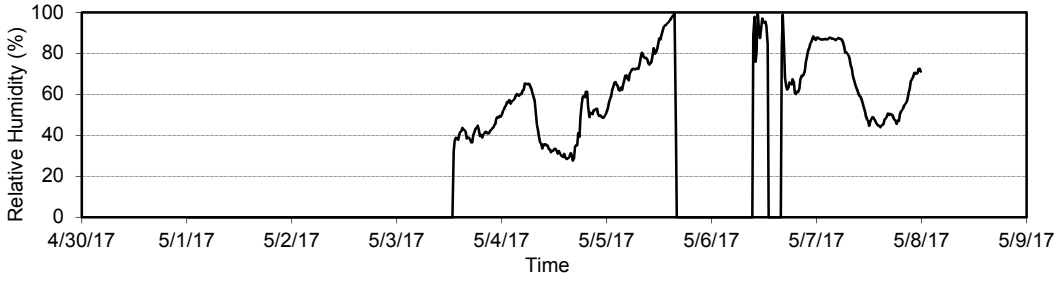


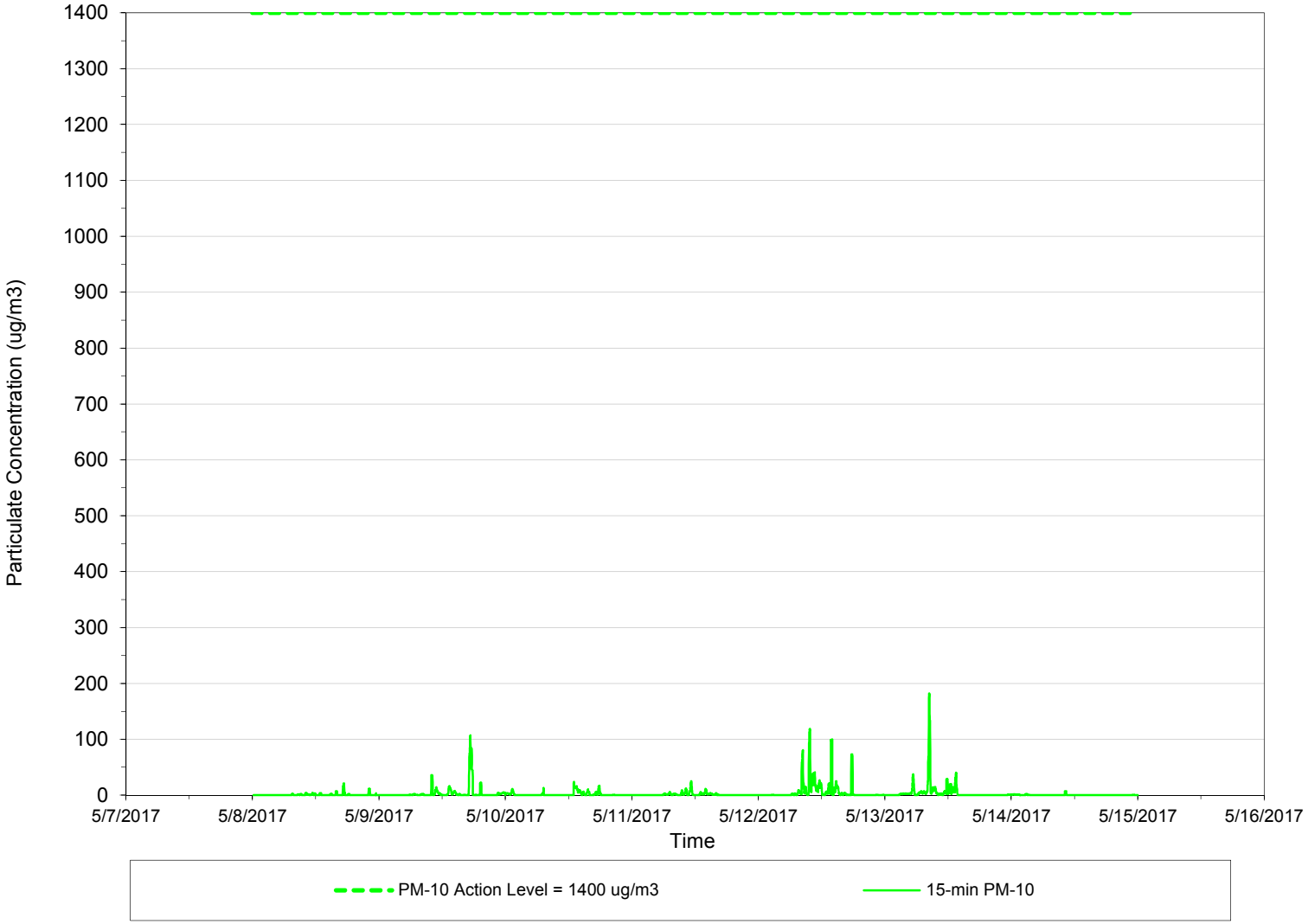
Figure 4. Relative humidity for the period 5/1/2017 through 5/7/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

May15,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 3.04

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/8/2017	20.78
5/9/2017	107.33
5/10/2017	24.22
5/11/2017	25.11
5/12/2017	118.91
5/13/2017	182.16
5/14/2017	7.19

Wind Summary Statistics	
CALM	18%
UW	23%
UW/CW	0%
CW	0%
CW/DW	6%
DW	26%
DW/CW	4%
CW/UW	24%
	0%

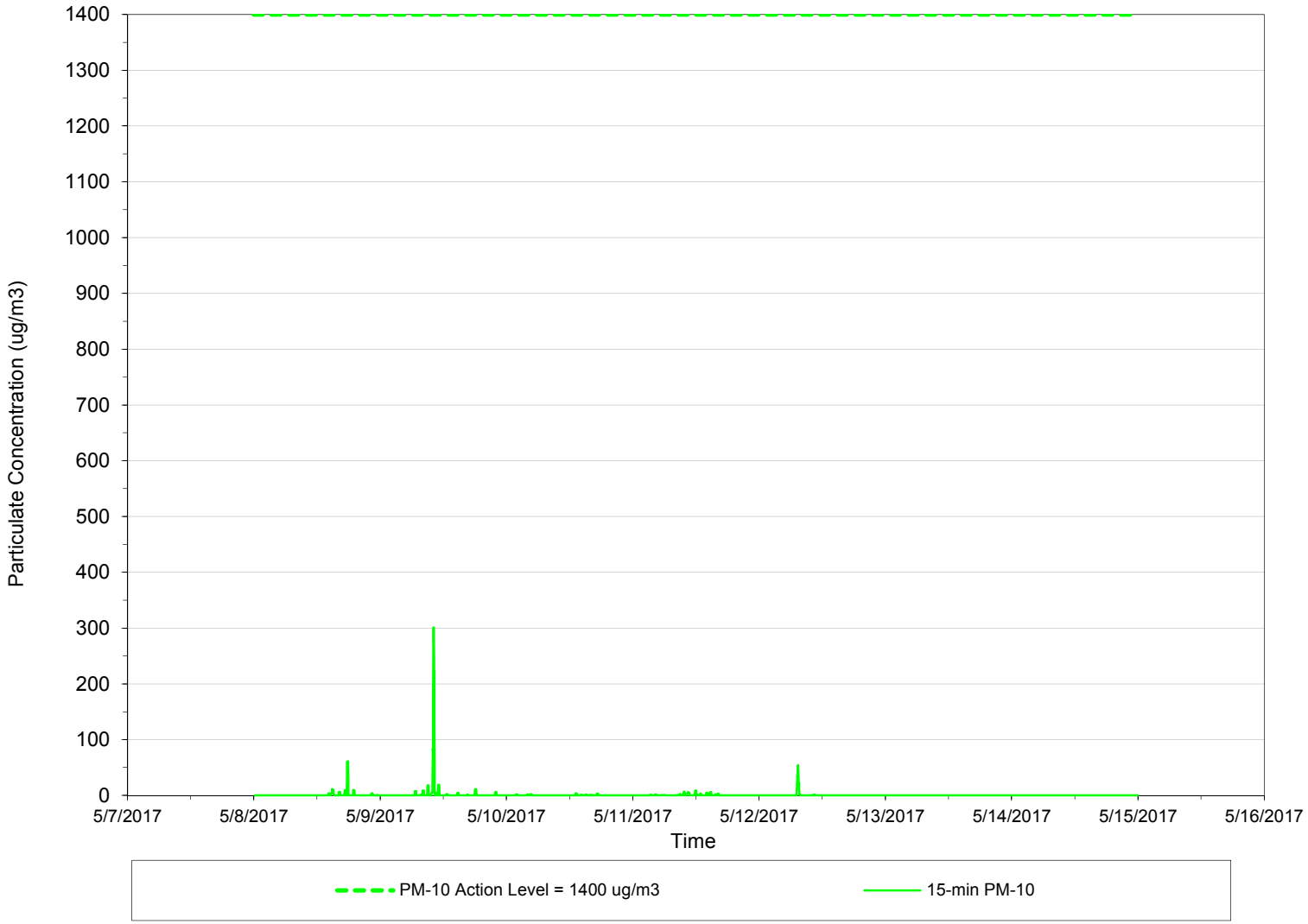
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May15,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.04

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/8/2017	61.38
5/9/2017	300.92
5/10/2017	3.93
5/11/2017	8.71
5/12/2017	54.00
5/13/2017	0.00
5/14/2017	0.00

Wind Summary Statistics	
CALM	18%
UW	22%
UW/CW	0%
CW	4%
CW/DW	4%
DW	45%
DW/CW	6%
CW/UW	1%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\May 2017\STA2_WEEKLYMay17.xls

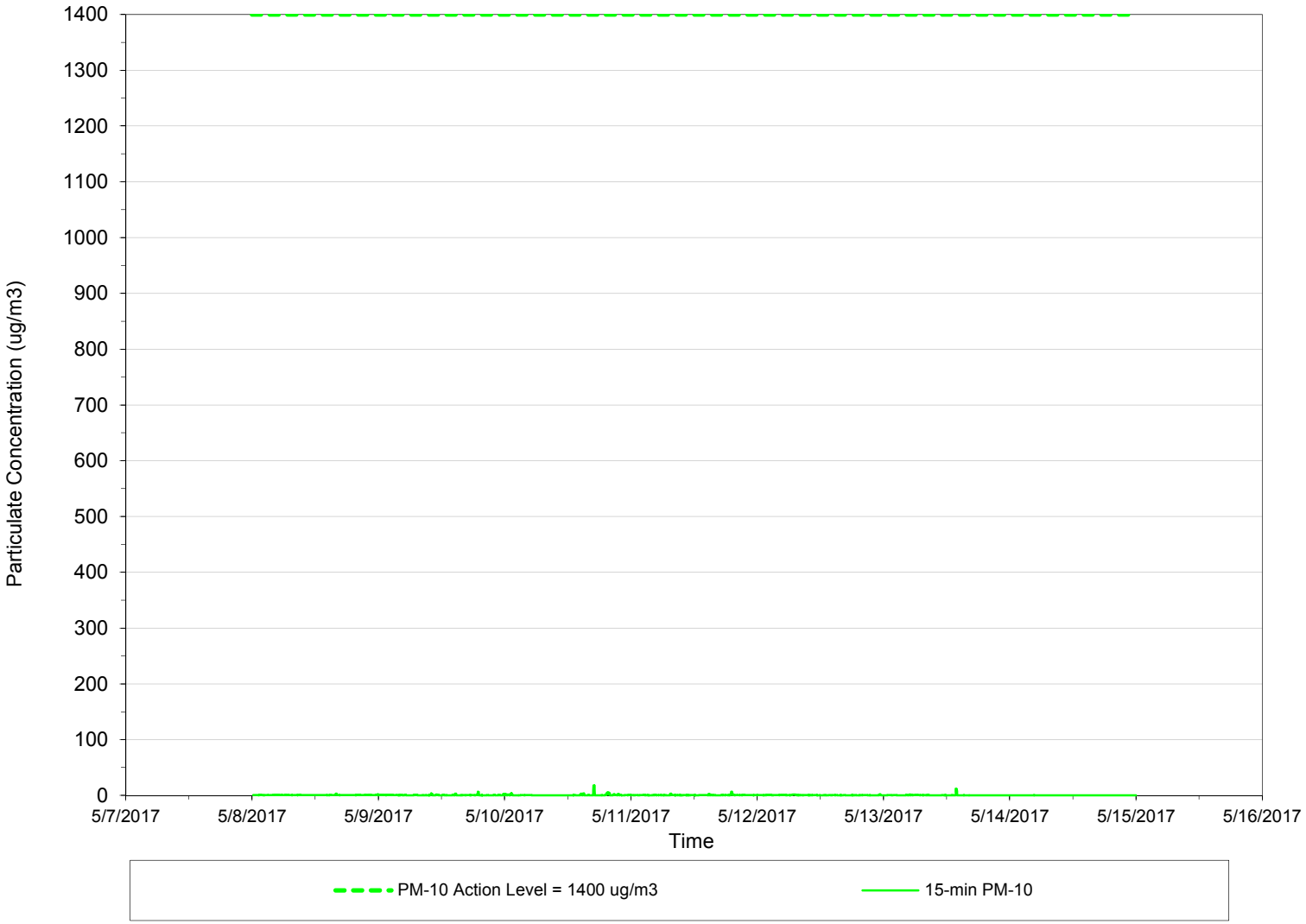
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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

May15,2017

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 =	0.54

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/8/2017	3.19
5/9/2017	6.59
5/10/2017	17.86
5/11/2017	6.85
5/12/2017	2.02
5/13/2017	12.05
5/14/2017	0.55

Wind Summary Statistics

CALM	18%
UW	22%
UW/CW	0%
CW	0%
CW/DW	0%
DW	40%
DW/CW	0%
CW/UW	21%
	0%

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May15,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/8/2017	0.00
5/9/2017	0.00
5/10/2017	0.00
5/11/2017	0.00
5/12/2017	0.00
5/13/2017	0.00
5/14/2017	0.00

Wind Summary Statistics	
CALM	18%
UW	0%
UW/CW	0%
CW	35%
CW/DW	6%
DW	16%
DW/CW	0%
CW/UW	26%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\May 2017\STA4_WEEKLYMay17.xls

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

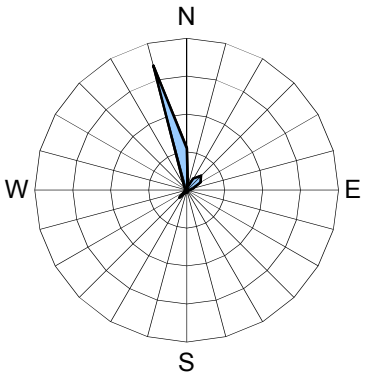


Figure 1. Wind rose for the period 5/8/2017 through 5/14/2017

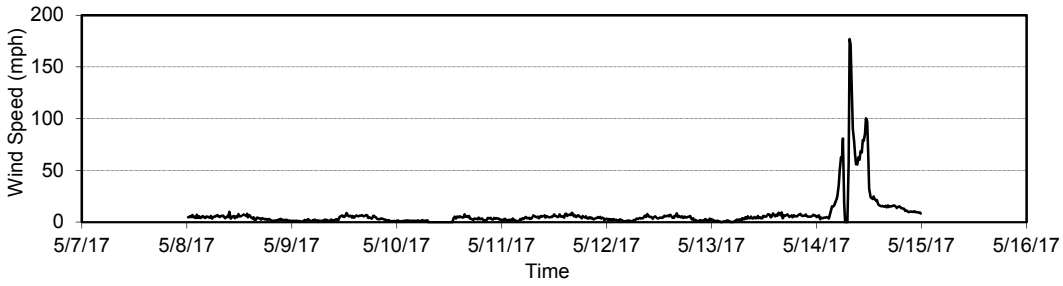


Figure 2. Wind speed for the period 5/8/2017 through 5/14/2017

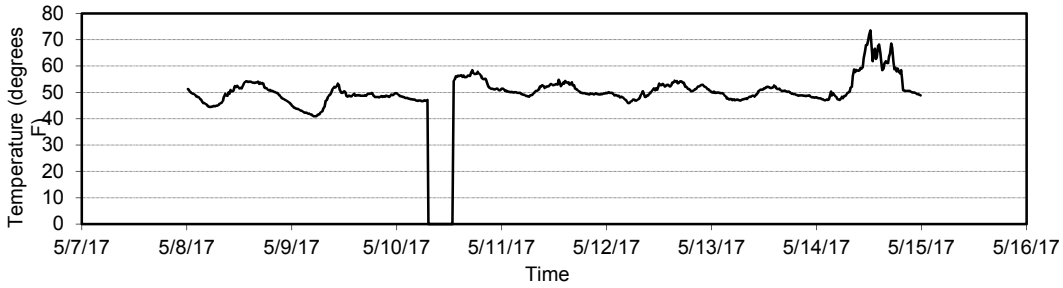


Figure 3. Temperature for the period 5/8/2017 through 5/14/2017

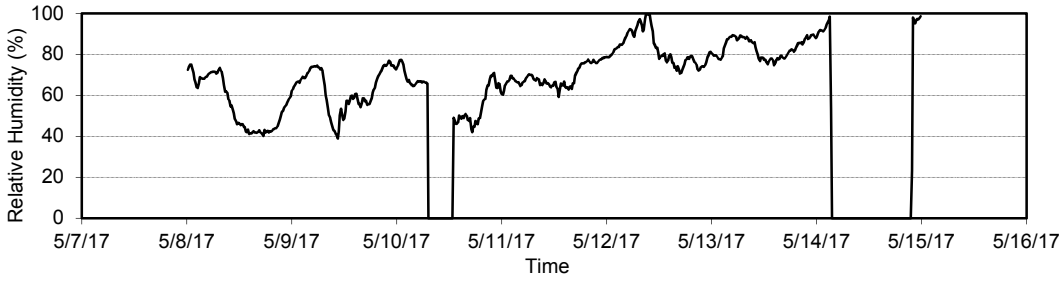


Figure 4. Relative humidity for the period 5/8/2017 through 5/14/2017

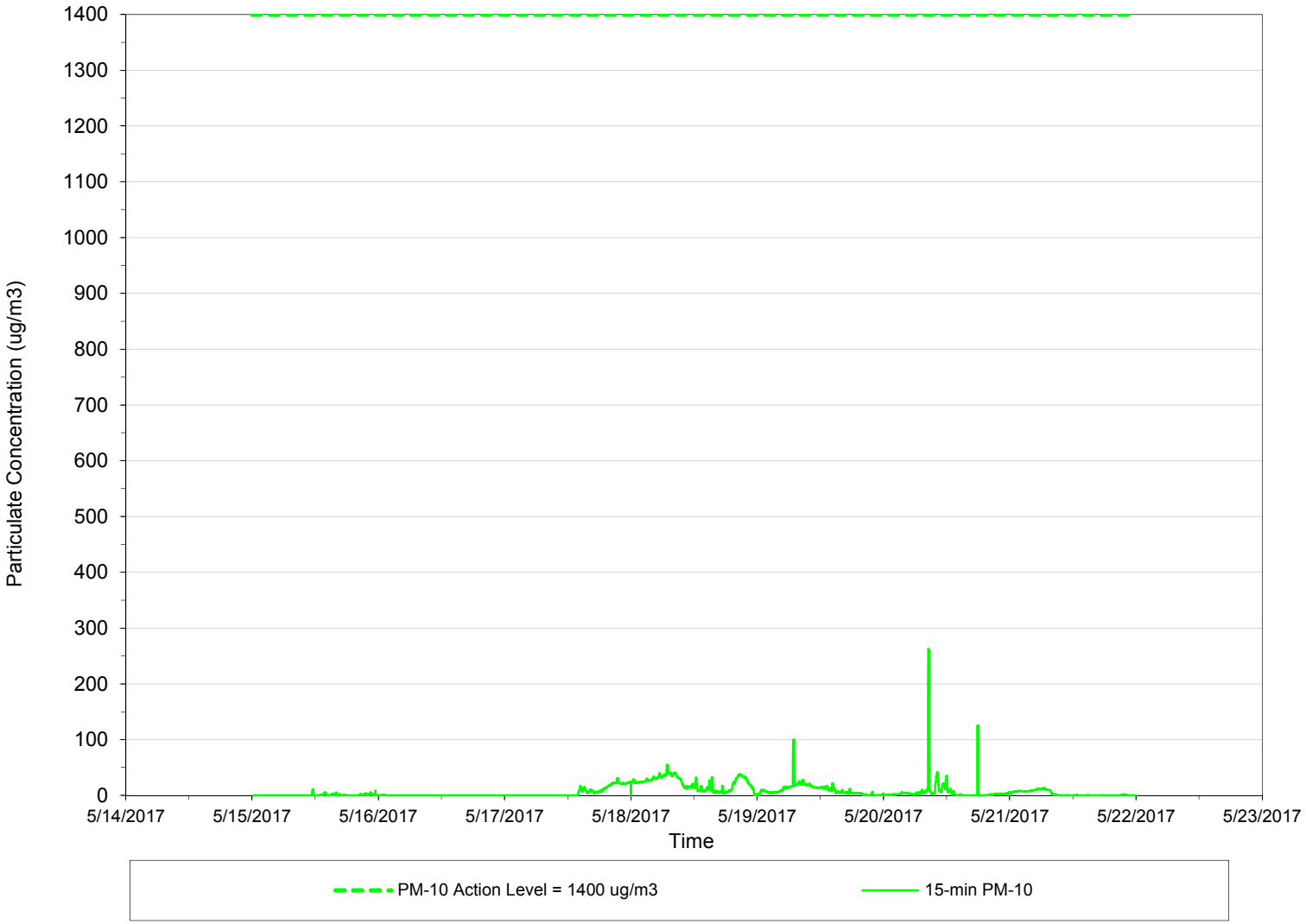
Note: Data are 15-minute averages collected at the Wynn Everett Site.

May22,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 7.32

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/15/2017	11.18
5/16/2017	1.64
5/17/2017	31.29
5/18/2017	55.42
5/19/2017	100.31
5/20/2017	263.19
5/21/2017	13.55

Wind Summary Statistics	
CALM	16%
UW	5%
UW/CW	0%
CW	0%
CW/DW	2%
DW	37%
DW/CW	8%
CW/UW	31%
	0%

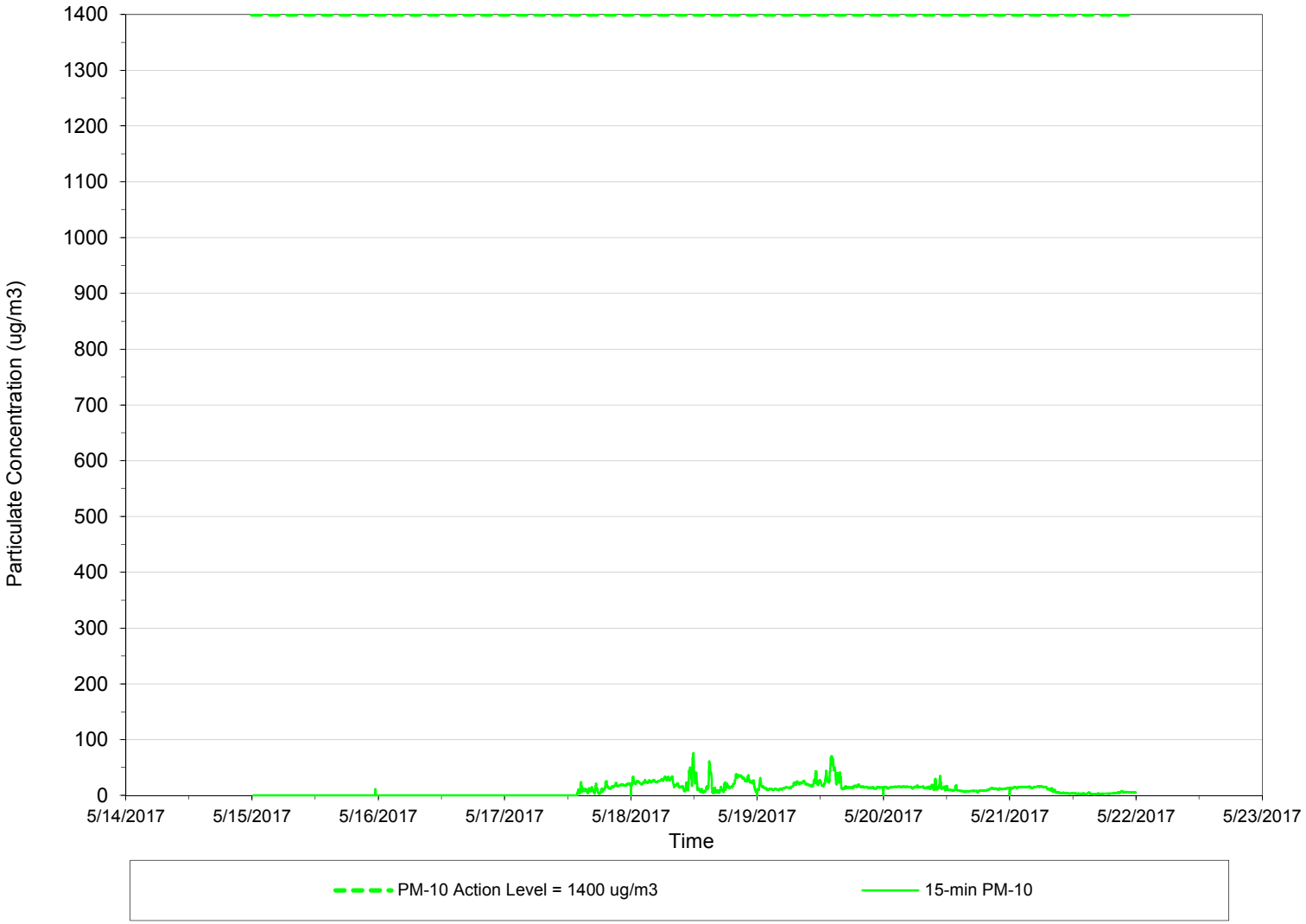
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\May 2017\STA1_WEEKLYMay17.xls

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May22,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 9.76

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/15/2017	11.37
5/16/2017	0.00
5/17/2017	25.63
5/18/2017	75.92
5/19/2017	70.67
5/20/2017	34.77
5/21/2017	16.83

Wind Summary Statistics	
CALM	16%
UW	13%
UW/CW	2%
CW	20%
CW/DW	9%
DW	40%
DW/CW	1%
CW/UW	0%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\May 2017\STA2_WEEKLYMay17.xls

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May22,2017

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 = 3.37

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/15/2017	12.87
5/16/2017	47.91
5/17/2017	15.43
5/18/2017	29.18
5/19/2017	31.37
5/20/2017	5.75
5/21/2017	2.16

Wind Summary Statistics	
CALM	16%
UW	49%
UW/CW	0%
CW	0%
CW/DW	0%
DW	11%
DW/CW	0%
CW/UW	24%
	0%

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May22,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/15/2017	0.00
5/16/2017	0.00
5/17/2017	0.00
5/18/2017	0.00
5/19/2017	0.00
5/20/2017	0.00
5/21/2017	0.00

Wind Summary Statistics	
CALM	16%
UW	0%
UW/CW	0%
CW	38%
CW/DW	2%
DW	8%
DW/CW	0%
CW/UW	35%
	0%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

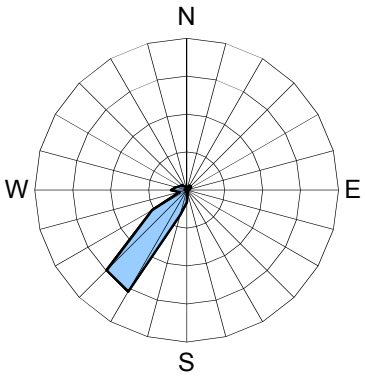


Figure 1. Wind rose for the period 5/15/2017 through 5/21/2017

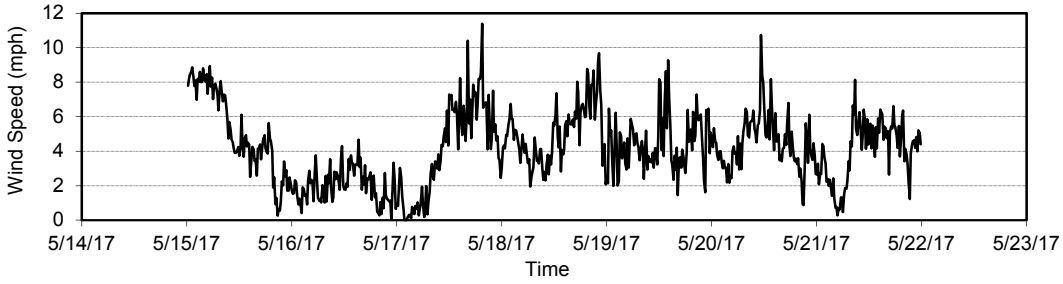


Figure 2. Wind speed for the period 5/15/2017 through 5/21/2017

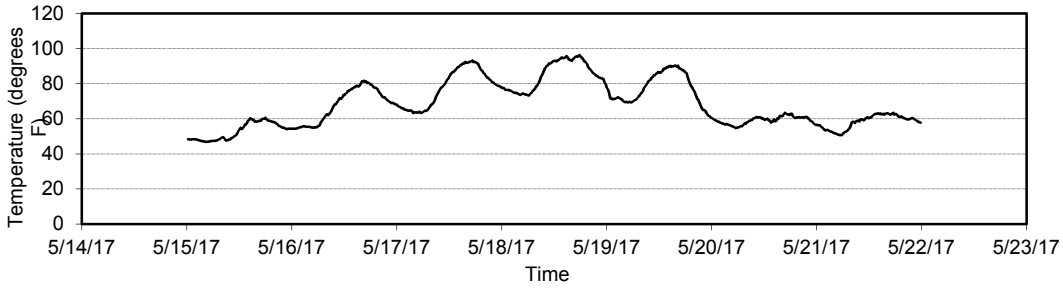


Figure 3. Temperature for the period 5/15/2017 through 5/21/2017

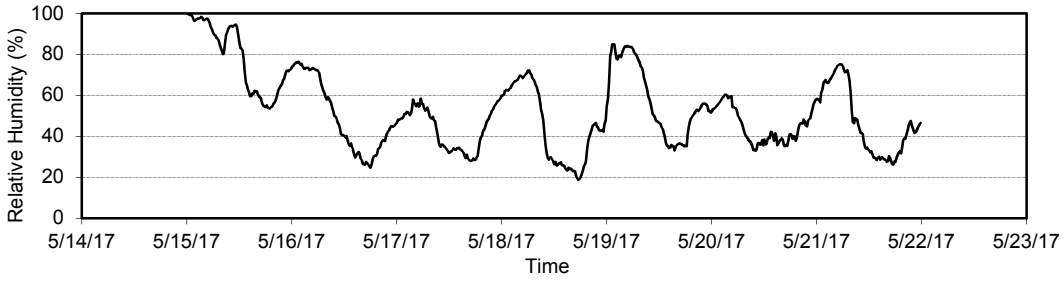


Figure 4. Relative humidity for the period 5/15/2017 through 5/21/2017

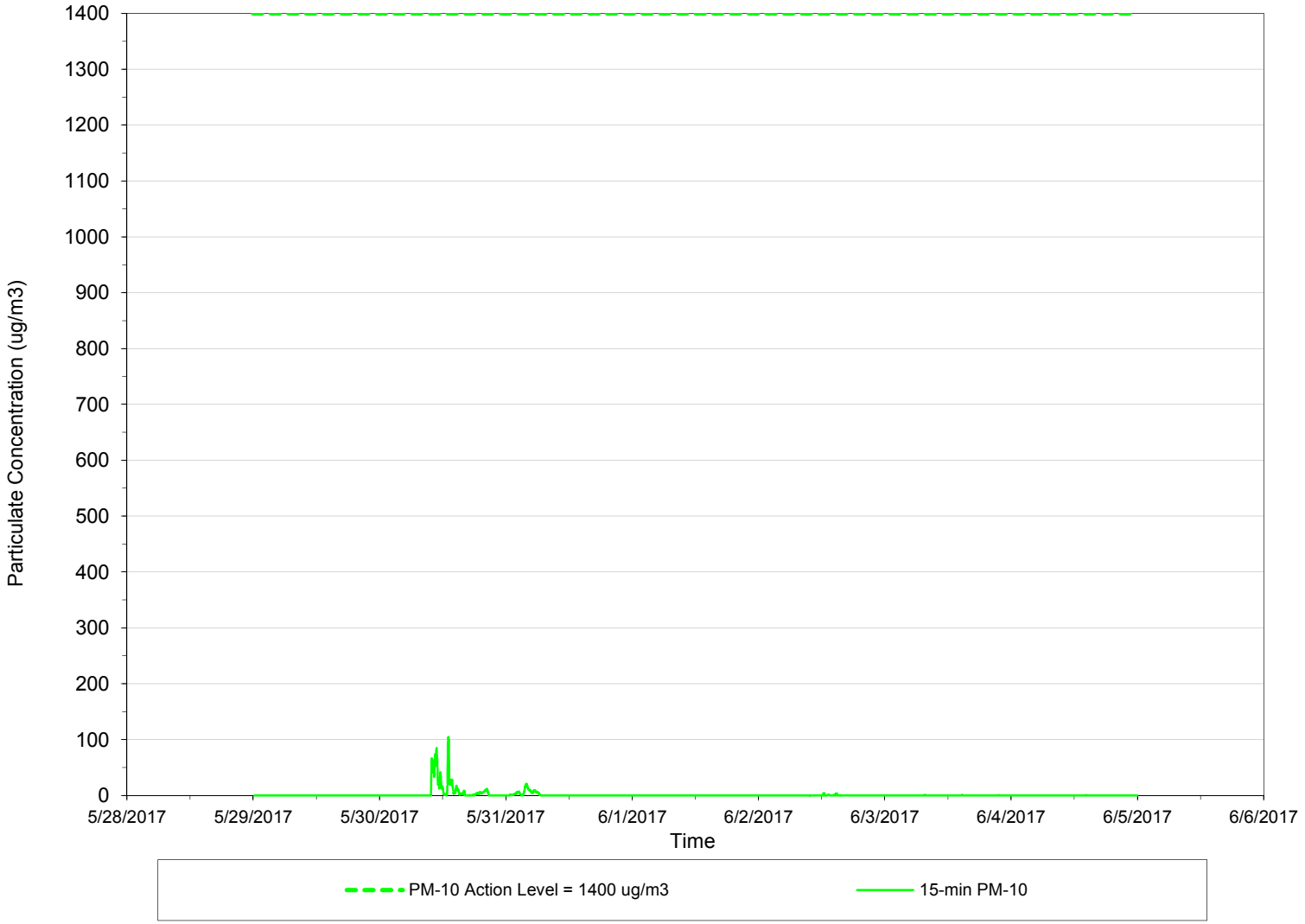
Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jun05,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	1.52

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/29/2017	#DIV/0!
5/30/2017	104.78
5/31/2017	20.78
6/1/2017	0.00
6/2/2017	3.75
6/3/2017	1.06
6/4/2017	0.31

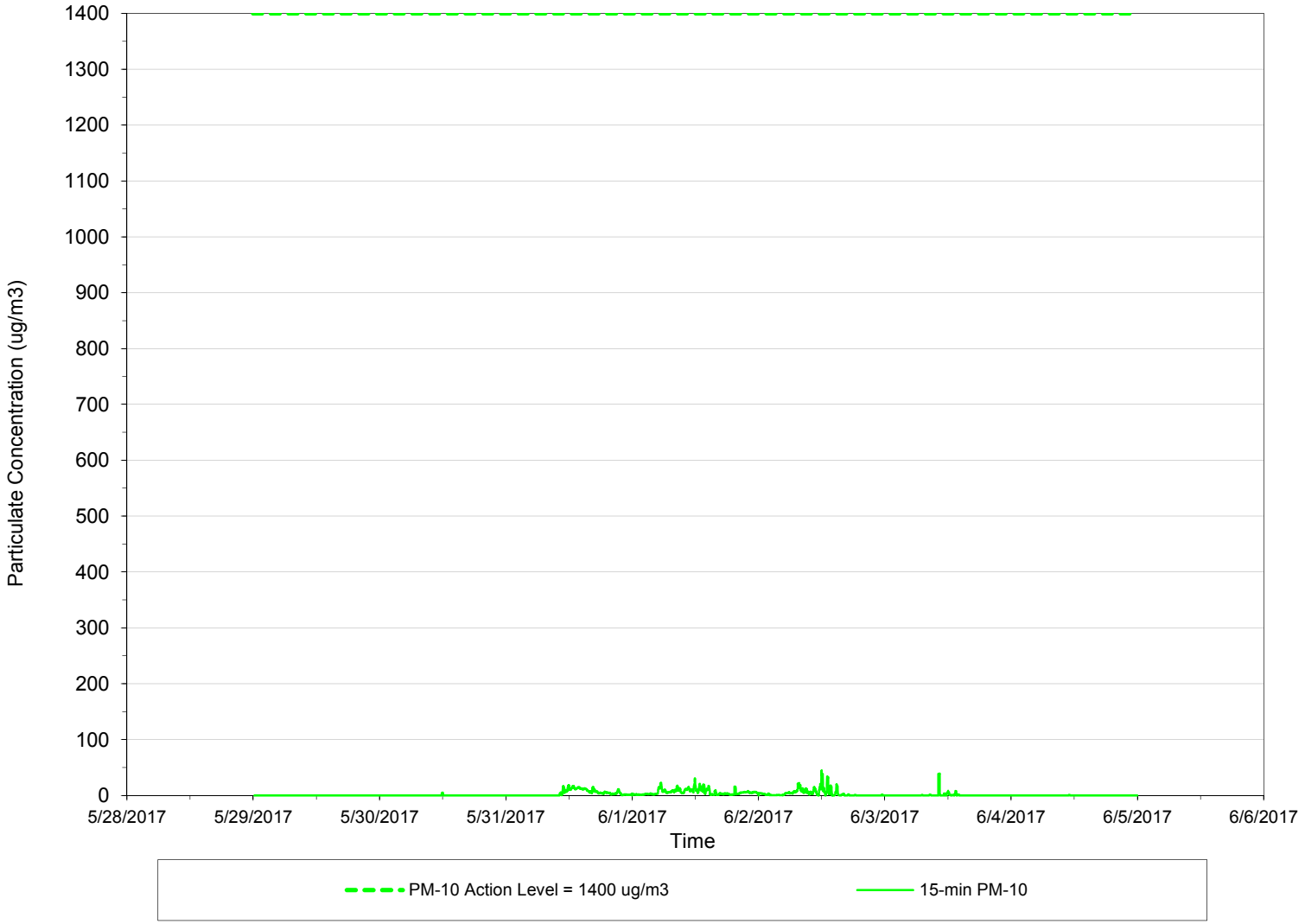
Wind Summary Statistics	
CALM	15%
UW	22%
UW/CW	0%
CW	0%
CW/DW	0%
DW	51%
DW/CW	1%
CW/UW	11%
TOTAL	100%

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Jun05,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.77

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/29/2017	#DIV/0!
5/30/2017	5.06
5/31/2017	18.56
6/1/2017	30.65
6/2/2017	44.98
6/3/2017	38.98
6/4/2017	1.21

Wind Summary Statistics	
CALM	15%
UW	37%
UW/CW	3%
CW	10%
CW/DW	1%
DW	32%
DW/CW	1%
CW/UW	0%
TOTAL	100%

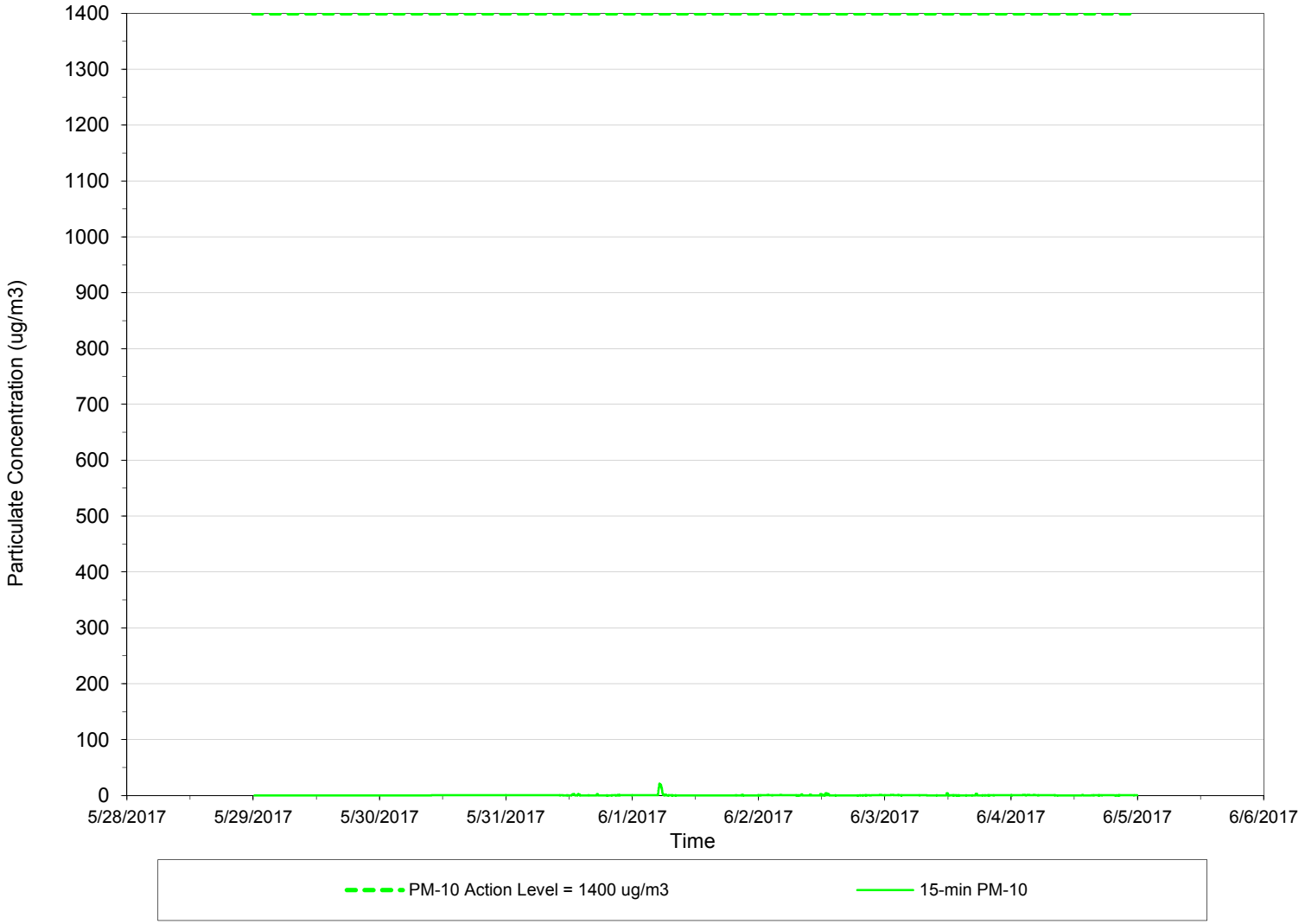
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Jun05,2017

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 = 0.50

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/29/2017	#DIV/0!
5/30/2017	0.61
5/31/2017	2.68
6/1/2017	21.23
6/2/2017	4.14
6/3/2017	4.10
6/4/2017	1.14

Wind Summary Statistics	
CALM	15%
UW	53%
UW/CW	0%
CW	0%
CW/DW	0%
DW	24%
DW/CW	0%
CW/UW	9%
TOTAL	100%

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Jun05,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
5/29/2017	#DIV/0!
5/30/2017	0.00
5/31/2017	0.00
6/1/2017	0.00
6/2/2017	0.00
6/3/2017	0.00
6/4/2017	0.00

Wind Summary Statistics	
CALM	15%
UW	0%
UW/CW	0%
CW	48%
CW/DW	0%
DW	17%
DW/CW	9%
CW/UW	11%
TOTAL	100%

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PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

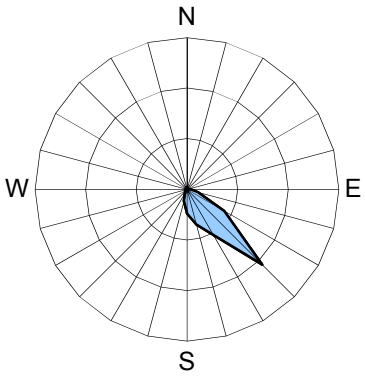


Figure 1. Wind rose for the period 5/29/2017 through 6/4/2017

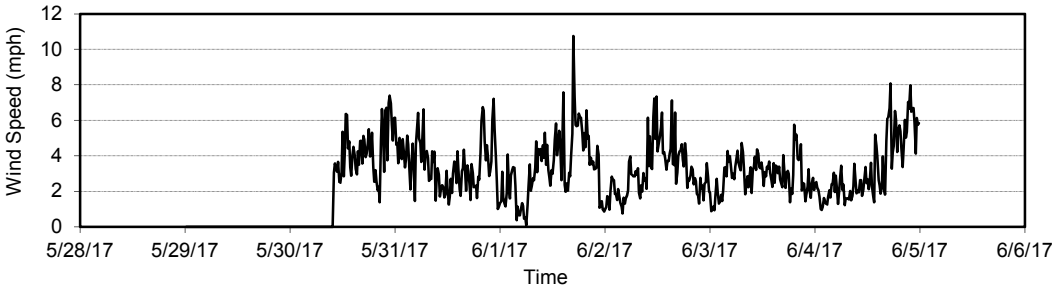


Figure 2. Wind speed for the period 5/29/2017 through 6/4/2017

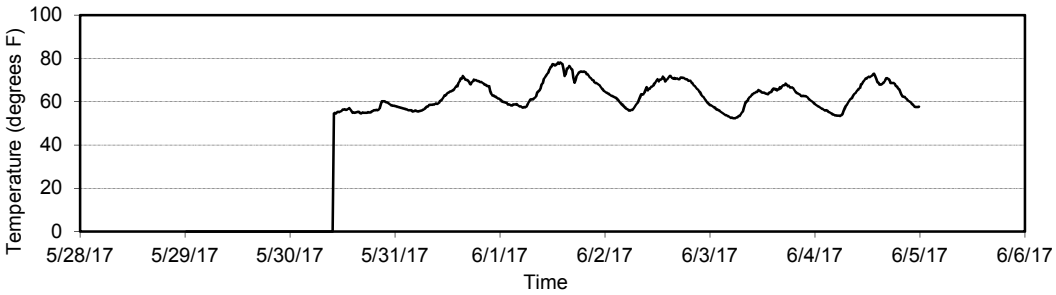


Figure 3. Temperature for the period 5/29/2017 through 6/4/2017

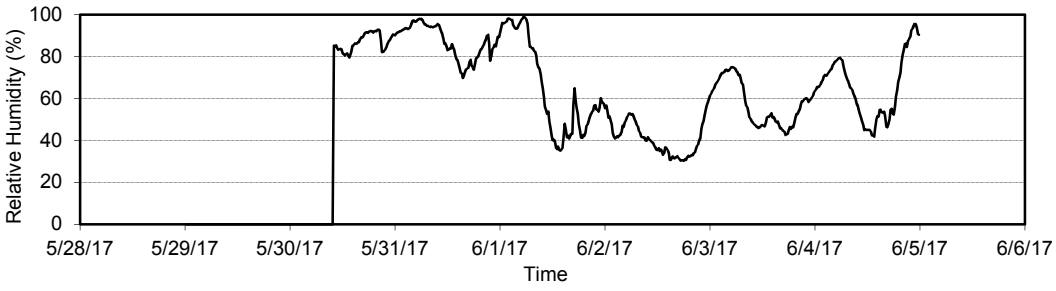
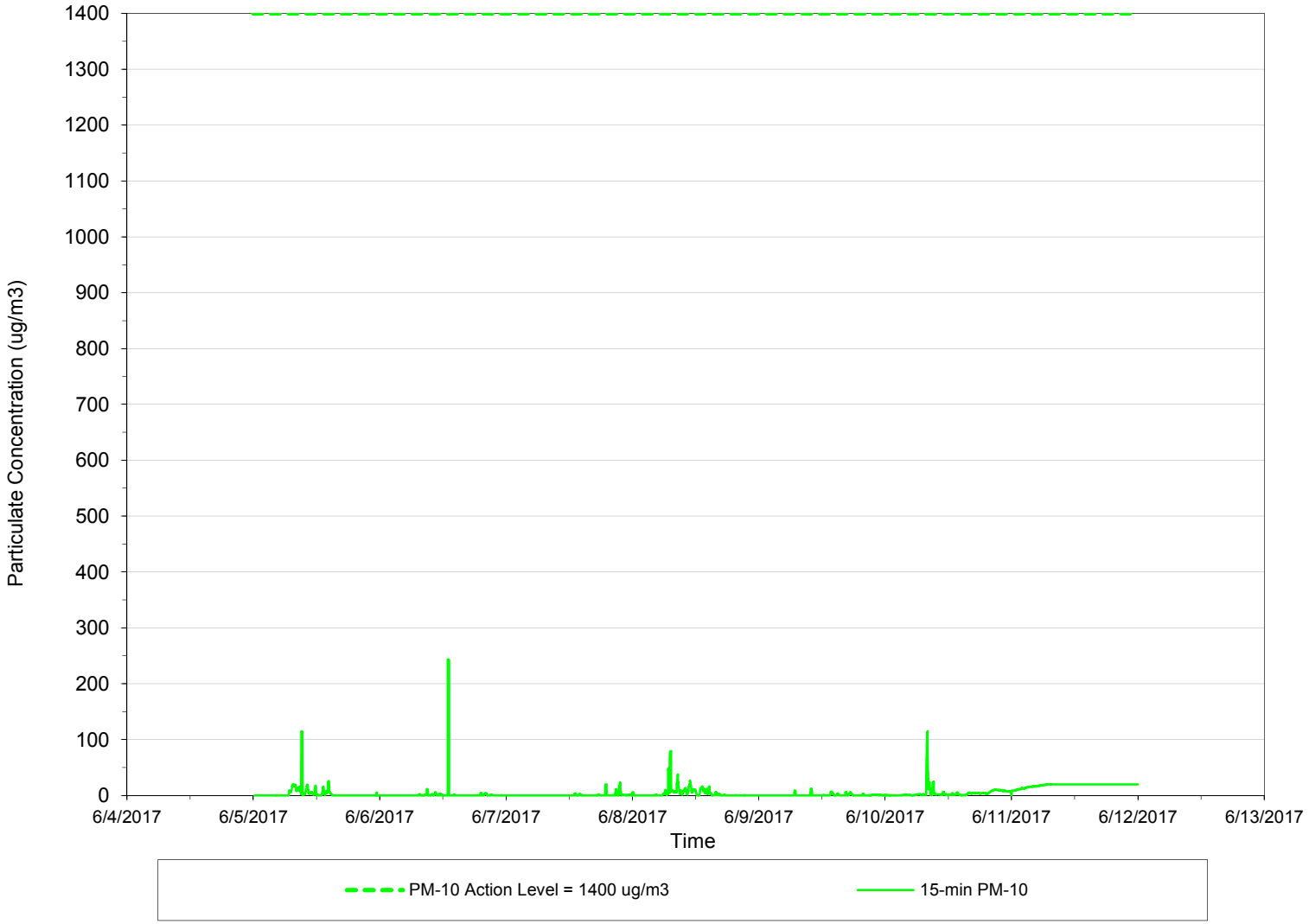


Figure 4. Relative humidity for the period 5/29/2017 through 6/4/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jun12,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts
Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	5.28

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/5/2017	114.72
6/6/2017	243.80
6/7/2017	23.11
6/8/2017	79.73
6/9/2017	12.56
6/10/2017	114.88
6/11/2017	20.29

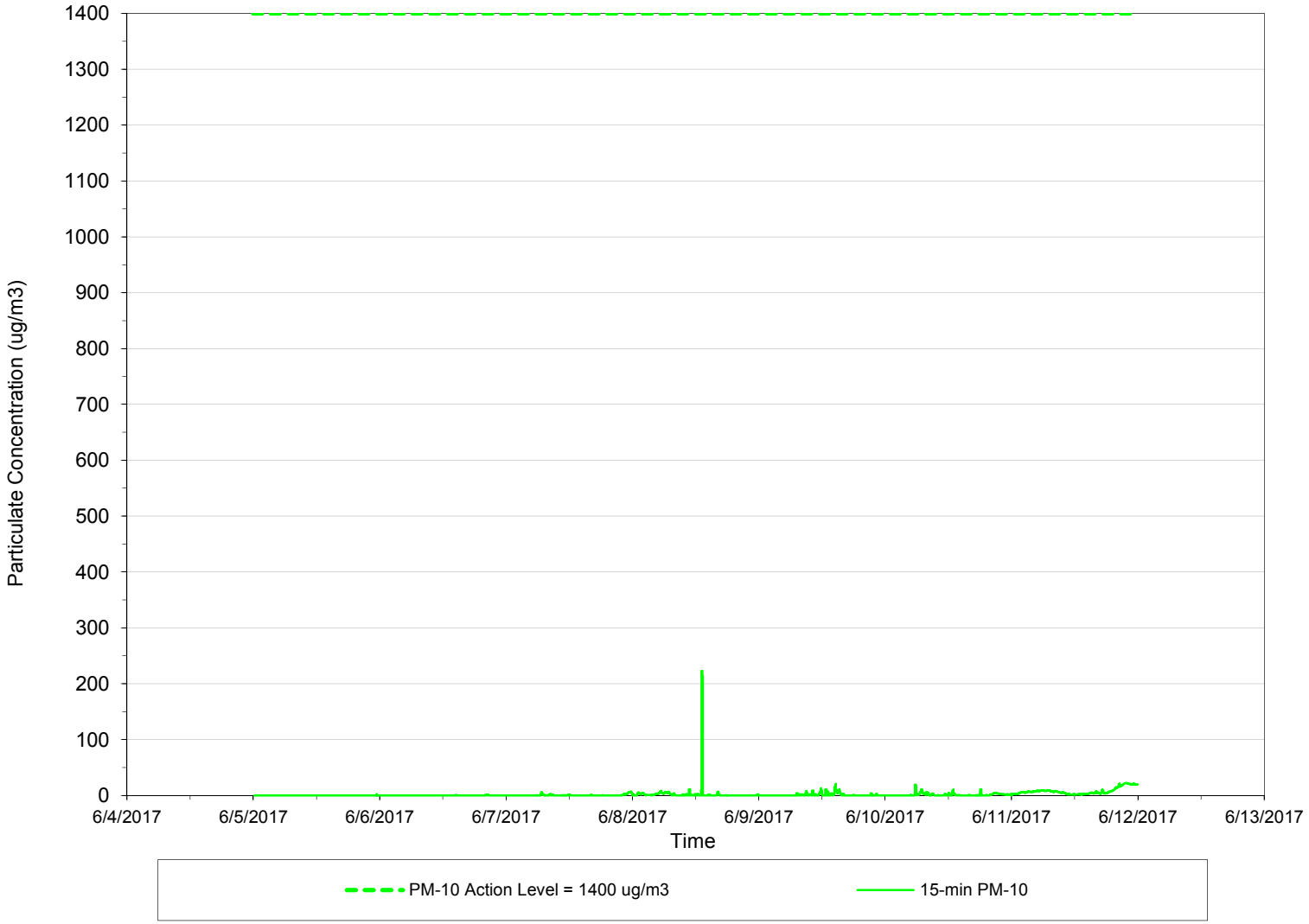
Wind Summary Statistics	
CALM	5%
UW	3%
UW/CW	0%
CW	0%
CW/DW	0%
DW	2%
DW/CW	0%
CW/UW	89%
TOTAL	100%

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AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts
Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	2.19

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/5/2017	2.45
6/6/2017	1.73
6/7/2017	7.16
6/8/2017	223.04
6/9/2017	20.75
6/10/2017	19.43
6/11/2017	22.55

Wind Summary Statistics	
CALM	5%
UW	2%
UW/CW	0%
CW	0%
CW/DW	0%
DW	91%
DW/CW	1%
CW/UW	0%
TOTAL	100%

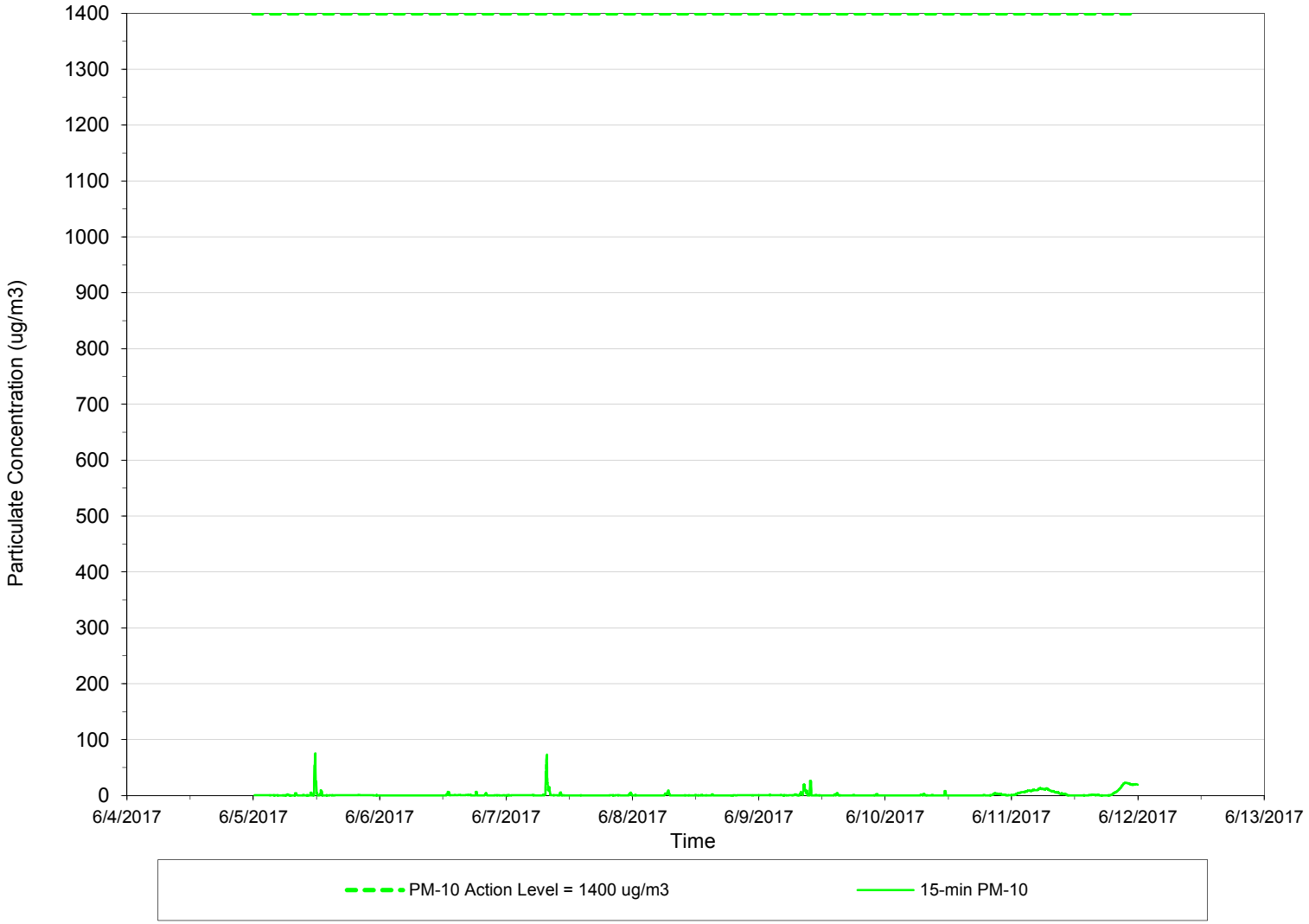
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Jun12,2017

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 =	1.68

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/5/2017	75.07
6/6/2017	6.63
6/7/2017	73.36
6/8/2017	8.71
6/9/2017	26.40
6/10/2017	8.04
6/11/2017	22.78

Wind Summary Statistics	
CALM	5%
UW	3%
UW/CW	0%
CW	0%
CW/DW	0%
DW	3%
DW/CW	0%
CW/UW	88%
TOTAL	100%

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PERIMETER AIR MONITORING SYSTEMS
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Jun12,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/5/2017	0.00
6/6/2017	0.00
6/7/2017	0.00
6/8/2017	0.00
6/9/2017	0.00
6/10/2017	0.00
6/11/2017	0.00

Wind Summary Statistics	
CALM	5%
UW	0%
UW/CW	0%
CW	4%
CW/DW	0%
DW	1%
DW/CW	0%
CW/UW	90%
TOTAL	100%

Filename: C:\Users\douglas.maguire\Desktop\My Jobs\Wynn Casino, Everett\Wynn AirLogics\June 2017\STA4_WEEKLYJun17

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PERIMETER AIR MONITORING SYSTEMS
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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

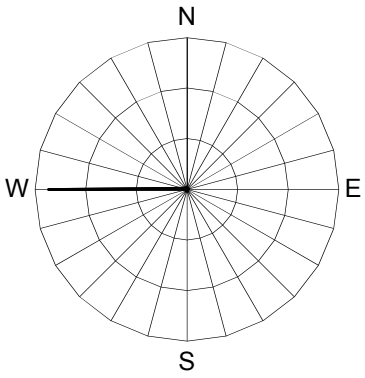


Figure 1. Wind rose for the period 6/5/2017 through 6/11/2017

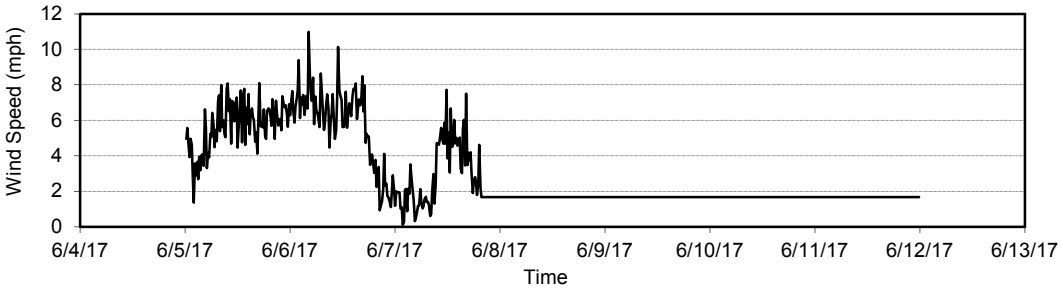


Figure 2. Wind speed for the period 6/5/2017 through 6/11/2017

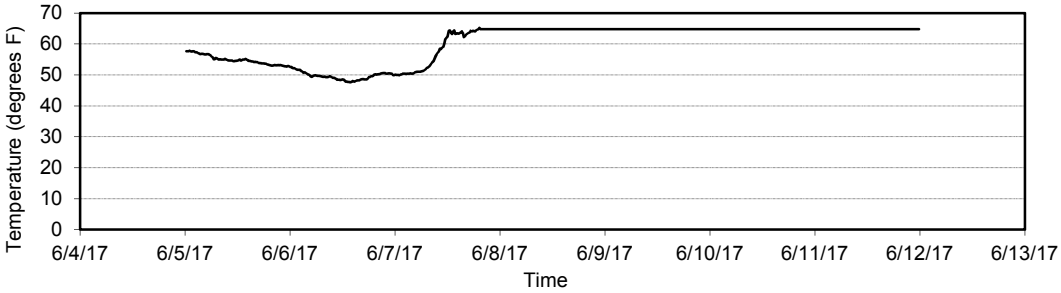


Figure 3. Temperature for the period 6/5/2017 through 6/11/2017

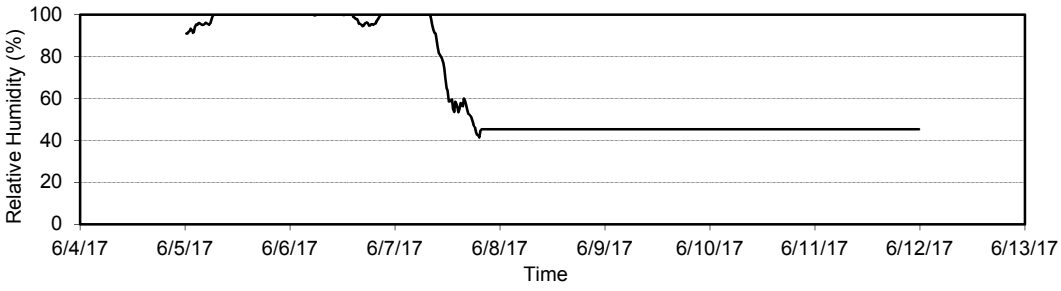


Figure 4. Relative humidity for the period 6/5/2017 through 6/11/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jun19,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	12.62

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/12/2017	45.78
6/13/2017	65.21
6/14/2017	32.15
6/15/2017	97.03
6/16/2017	56.10
6/17/2017	35.76
6/18/2017	22.05

Wind Summary Statistics	
CALM	8%
UW	4%
UW/CW	0%
CW	0%
CW/DW	1%
DW	25%
DW/CW	0%
CW/UW	62%
TOTAL	100%

Filename: C:\Users\douglas.maguire\Desktop\My Jobs\Wynn Casino, Everett\Wynn AirLogics\June 2017\STA1_WEEKLYJun17

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Jun19,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 6.03

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/12/2017	58.57
6/13/2017	230.44
6/14/2017	12.47
6/15/2017	15.46
6/16/2017	49.05
6/17/2017	0.00
6/18/2017	0.00

Wind Summary Statistics	
CALM	8%
UW	25%
UW/CW	0%
CW	0%
CW/DW	0%
DW	66%
DW/CW	1%
CW/UW	0%
TOTAL	100%

Filename: C:\Users\douglas.maguire\Desktop\My Jobs\Wynn Casino, Everett\Wynn AirLogics\June 2017\STA2_WEEKLYJun17

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Jun19,2017

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 =	5.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/12/2017	23.64
6/13/2017	32.48
6/14/2017	19.91
6/15/2017	2.57
6/16/2017	1.03
6/17/2017	19.03
6/18/2017	11.41

Wind Summary Statistics	
CALM	8%
UW	23%
UW/CW	0%
CW	0%
CW/DW	0%
DW	8%
DW/CW	0%
CW/UW	61%
TOTAL	100%

Filename: C:\Users\douglas.maguire\Desktop\My Jobs\Wynn Casino, Everett\Wynn AirLogics\June 2017\STA3_WEEKLYJun17

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Jun19,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/12/2017	0.00
6/13/2017	0.00
6/14/2017	0.00
6/15/2017	0.00
6/16/2017	0.00
6/17/2017	0.00
6/18/2017	0.00

Wind Summary Statistics	
CALM	8%
UW	0%
UW/CW	0%
CW	6%
CW/DW	1%
DW	21%
DW/CW	2%
CW/UW	63%
TOTAL	100%

Filename: C:\Users\douglas.maguire\Desktop\My Jobs\Wynn Casino, Everett\Wynn AirLogics\June 2017\STA4_WEEKLYJun17

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

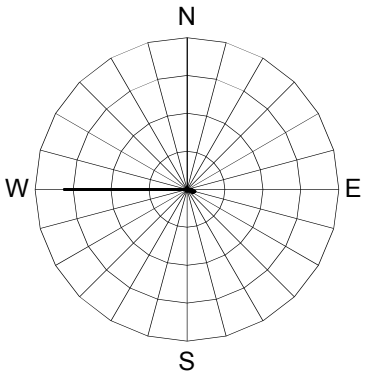


Figure 1. Wind rose for the period 6/12/2017 through 6/18/2017

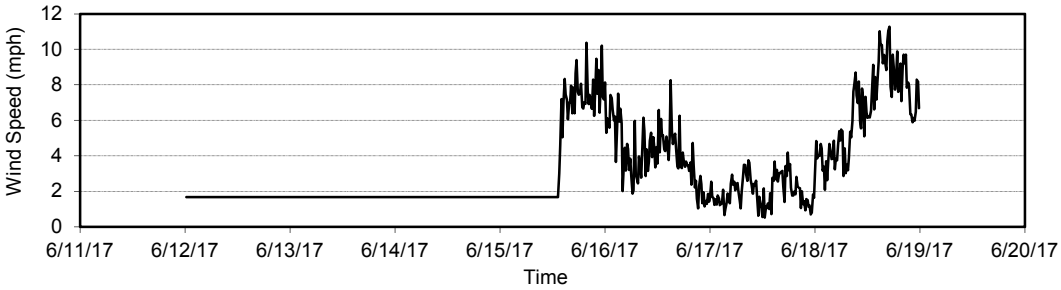


Figure 2. Wind speed for the period 6/12/2017 through 6/18/2017

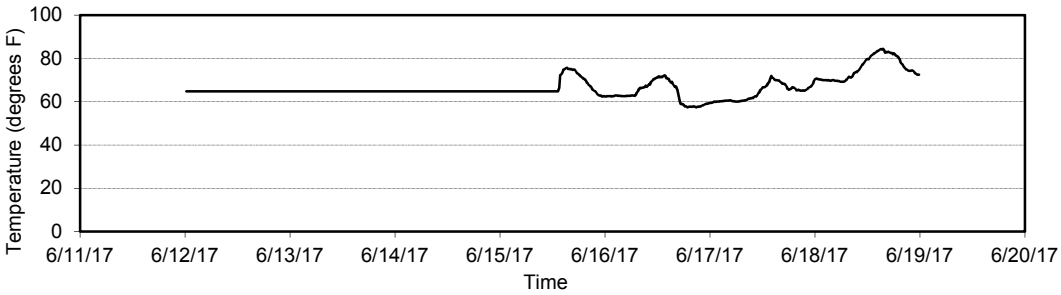


Figure 3. Temperature for the period 6/12/2017 through 6/18/2017

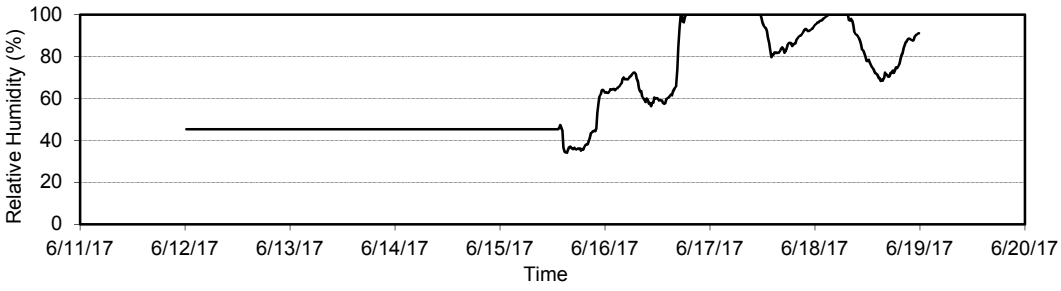


Figure 4. Relative humidity for the period 6/12/2017 through 6/18/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jun26,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 9.33

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/19/2017	162.83
6/20/2017	36.94
6/21/2017	11.90
6/22/2017	7.01
6/23/2017	61.72
6/24/2017	21.92
6/25/2017	0.43

Wind Summary Statistics	
CALM	10%
UW	1%
UW/CW	0%
CW	0%
CW/DW	1%
DW	87%
DW/CW	0%
CW/UW	1%
	0%

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Jun26,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.81

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/19/2017	3.26
6/20/2017	10.97
6/21/2017	59.16
6/22/2017	35.73
6/23/2017	16.15
6/24/2017	18.51
6/25/2017	0.11

Wind Summary Statistics	
CALM	10%
UW	85%
UW/CW	1%
CW	2%
CW/DW	0%
DW	3%
DW/CW	0%
CW/UW	0%
	0%

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Jun26,2017

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 = 2.15

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/19/2017	13.45
6/20/2017	0.46
6/21/2017	5.76
6/22/2017	36.91
6/23/2017	23.99
6/24/2017	9.92
6/25/2017	11.64

Wind Summary Statistics	
CALM	10%
UW	79%
UW/CW	0%
CW	0%
CW/DW	0%
DW	11%
DW/CW	0%
CW/UW	0%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\June 2017\STA3_WEEKLYJun17.xls

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Jun26,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/19/2017	0.00
6/20/2017	0.00
6/21/2017	0.00
6/22/2017	0.00
6/23/2017	0.00
6/24/2017	0.00
6/25/2017	0.00

Wind Summary Statistics

CALM	10%
UW	0%
UW/CW	0%
CW	15%
CW/DW	2%
DW	62%
DW/CW	11%
CW/UW	1%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\June 2017\STA4_WEEKLYJun17.xls

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PERIMETER AIR MONITORING SYSTEMS
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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

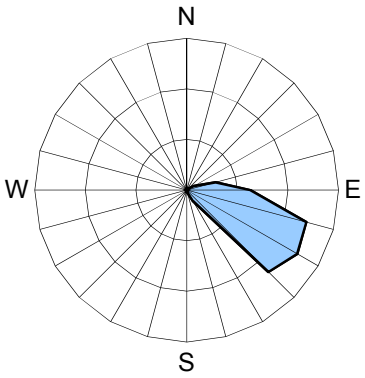


Figure 1. Wind rose for the period 6/19/2017 through 6/25/2017

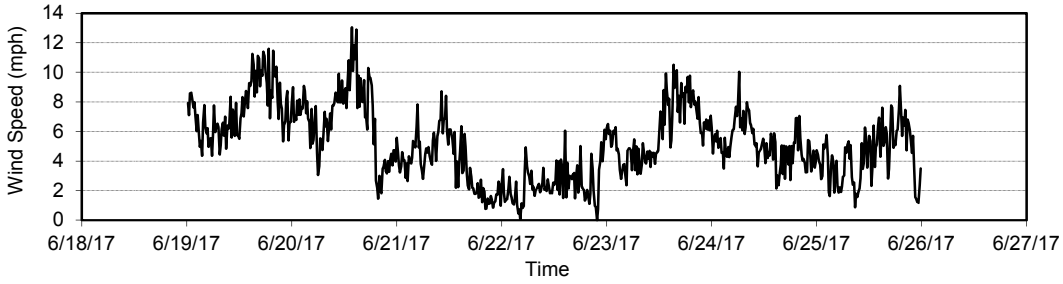


Figure 2. Wind speed for the period 6/19/2017 through 6/25/2017

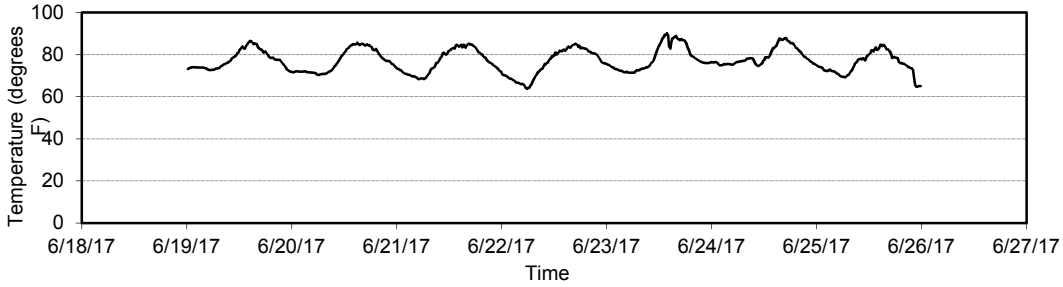


Figure 3. Temperature for the period 6/19/2017 through 6/25/2017

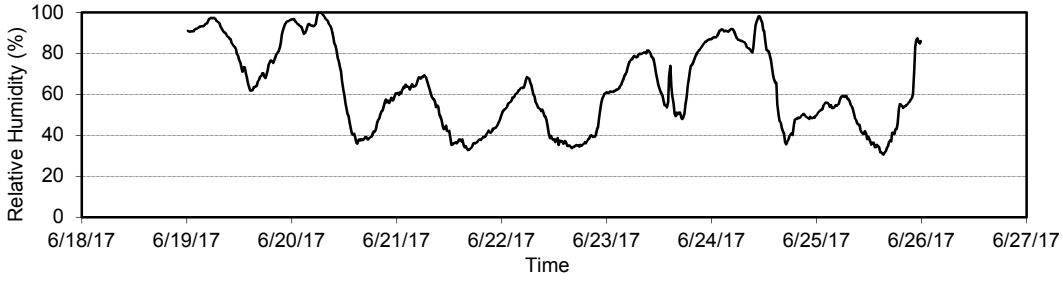


Figure 4. Relative humidity for the period 6/19/2017 through 6/25/2017

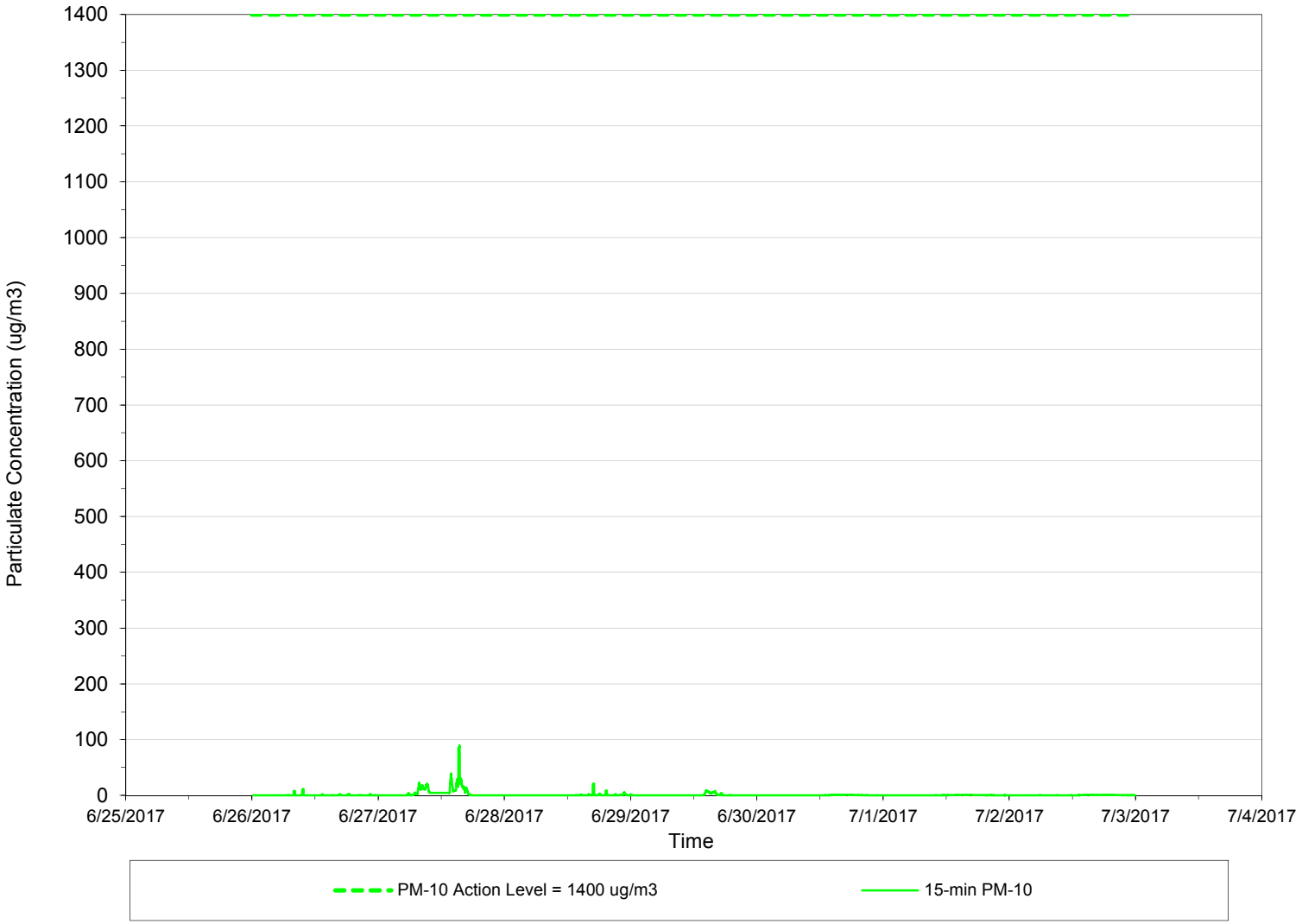
Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jul03,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.19

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/26/2017	11.74
6/27/2017	89.93
6/28/2017	21.65
6/29/2017	9.34
6/30/2017	0.98
7/1/2017	0.98
7/2/2017	0.98

Wind Summary Statistics

CALM	12%
UW	5%
UW/CW	0%
CW	0%
CW/DW	3%
DW	80%
DW/CW	0%
CW/UW	0%
	0%

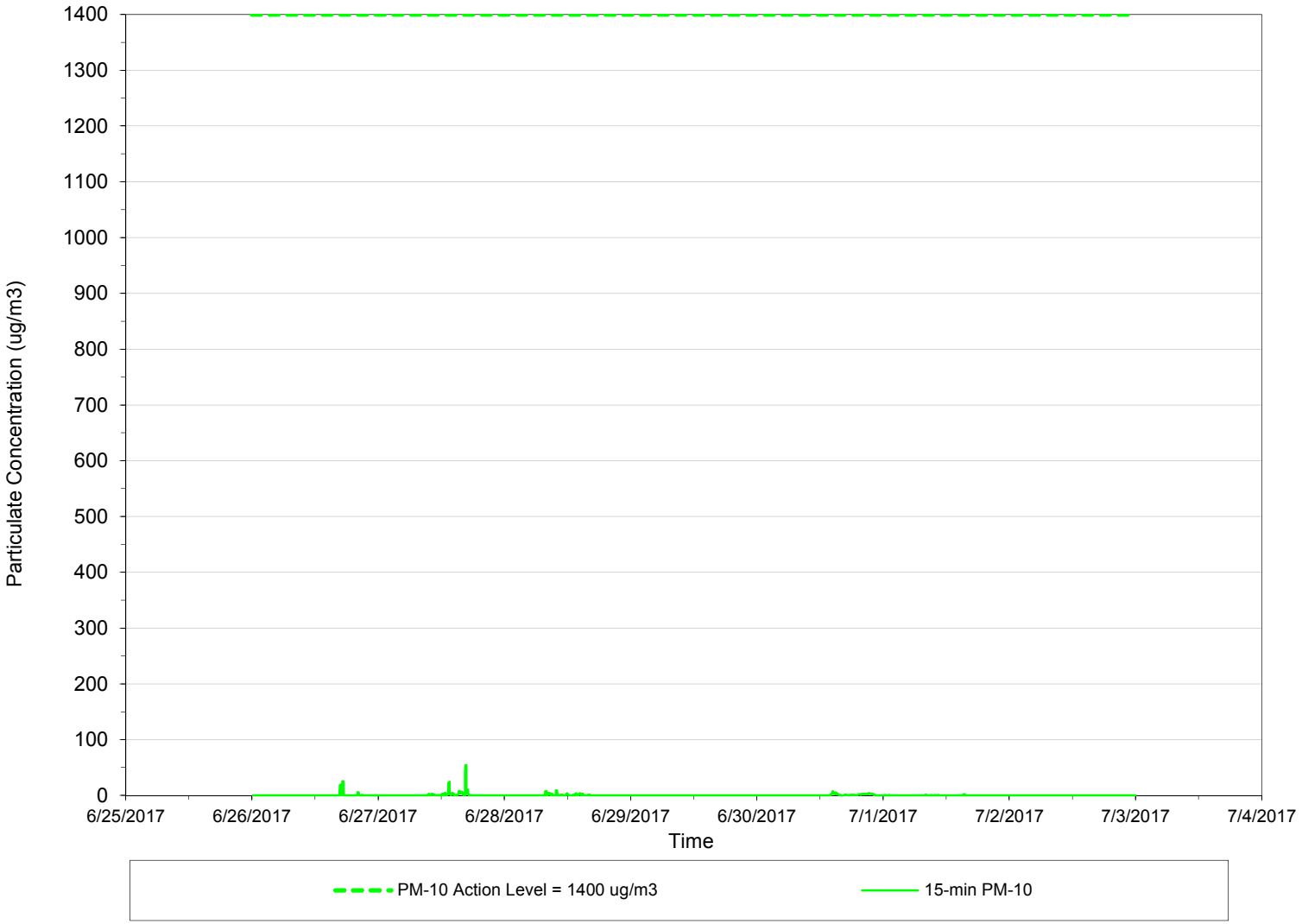
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA1_WEEKLYJul17.xls

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Jul03,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	0.49

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/26/2017	25.23
6/27/2017	54.13
6/28/2017	9.32
6/29/2017	0.00
6/30/2017	7.86
7/1/2017	2.38
7/2/2017	0.00

Wind Summary Statistics

CALM	12%
UW	80%
UW/CW	0%
CW	1%
CW/DW	0%
DW	7%
DW/CW	0%
CW/UW	0%
	0%

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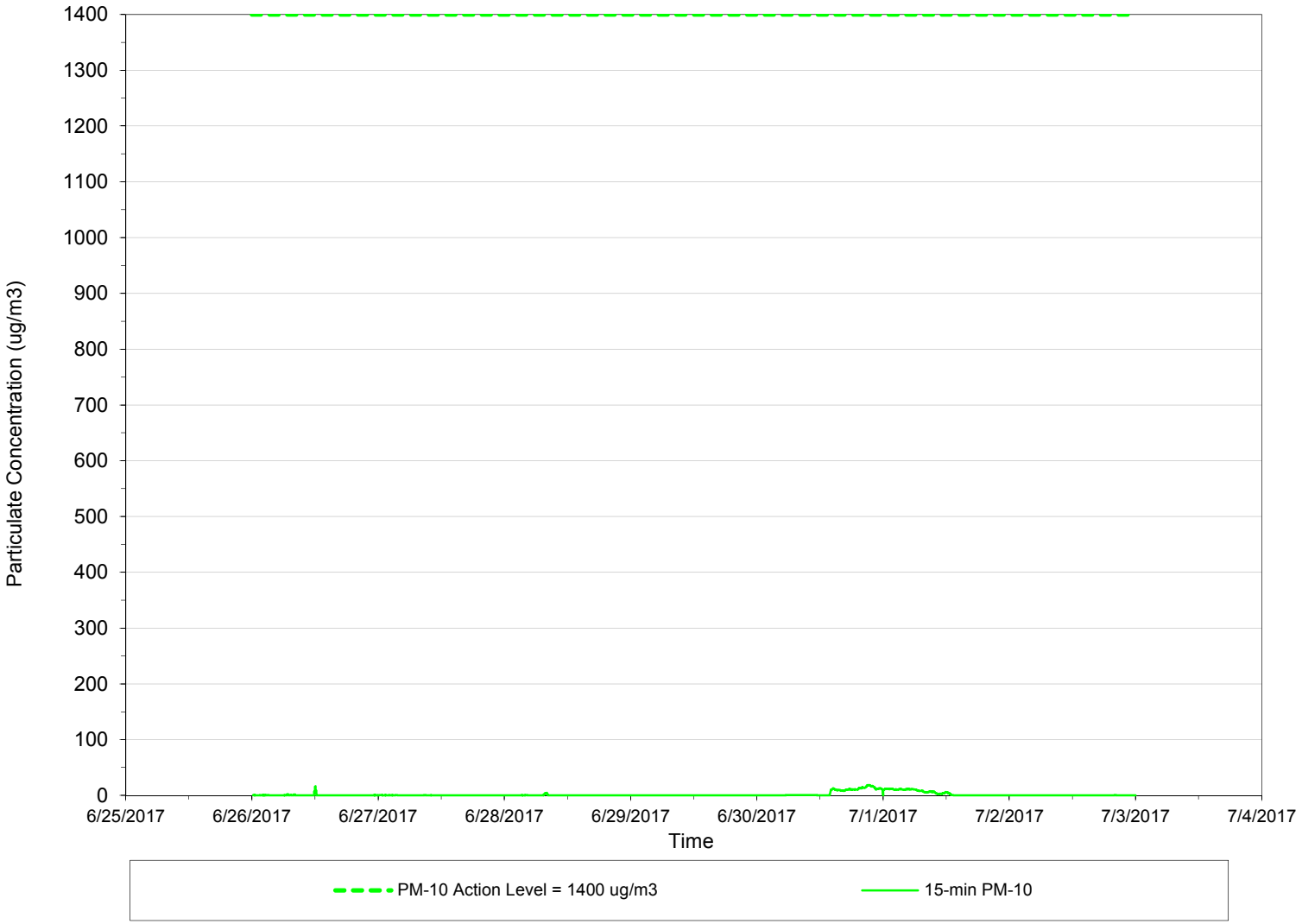
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA2_WEEKLYJul17.xls

Jul03,2017

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 =	1.51

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/26/2017	16.40
6/27/2017	0.61
6/28/2017	5.13
6/29/2017	0.00
6/30/2017	18.77
7/1/2017	12.28
7/2/2017	0.78

Wind Summary Statistics

CALM	12%
UW	63%
UW/CW	0%
CW	0%
CW/DW	0%
DW	25%
DW/CW	0%
CW/UW	0%
	0%

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Jul03,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
6/26/2017	0.00
6/27/2017	0.00
6/28/2017	0.00
6/29/2017	0.00
6/30/2017	0.00
7/1/2017	0.00
7/2/2017	0.00

Wind Summary Statistics

CALM	12%
UW	0%
UW/CW	0%
CW	9%
CW/DW	4%
DW	73%
DW/CW	2%
CW/UW	0%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA4_WEEKLYJul17.xls

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

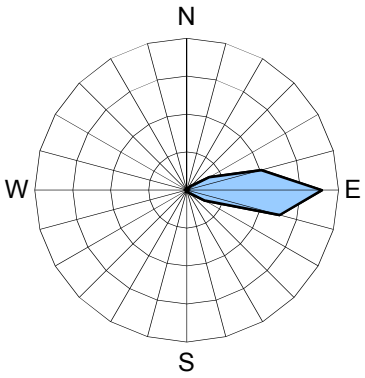


Figure 1. Wind rose for the period 6/26/2017 through 7/2/2017

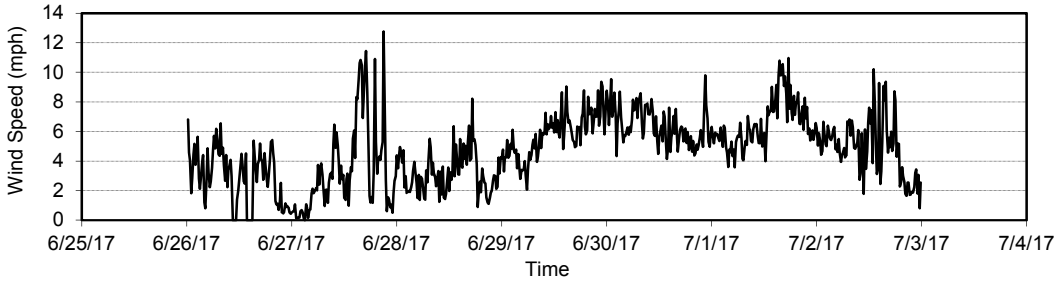


Figure 2. Wind speed for the period 6/26/2017 through 7/2/2017

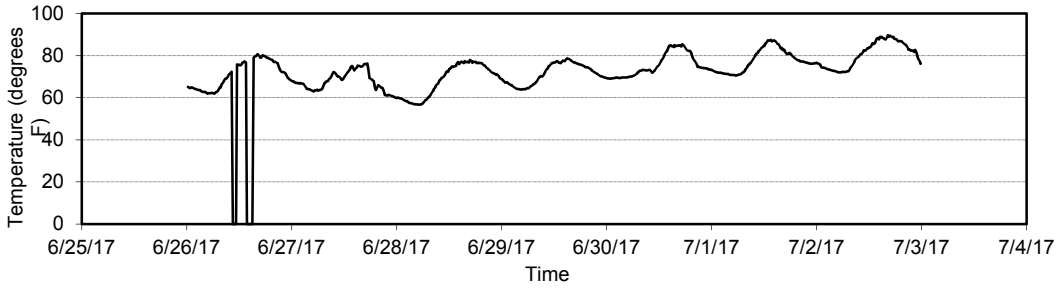


Figure 3. Temperature for the period 6/26/2017 through 7/2/2017

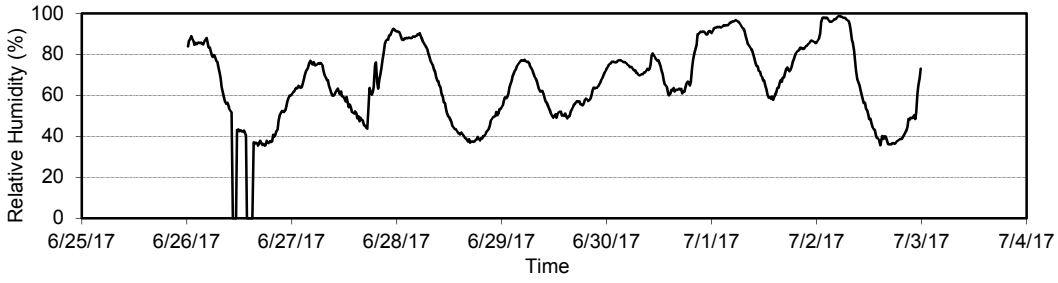


Figure 4. Relative humidity for the period 6/26/2017 through 7/2/2017

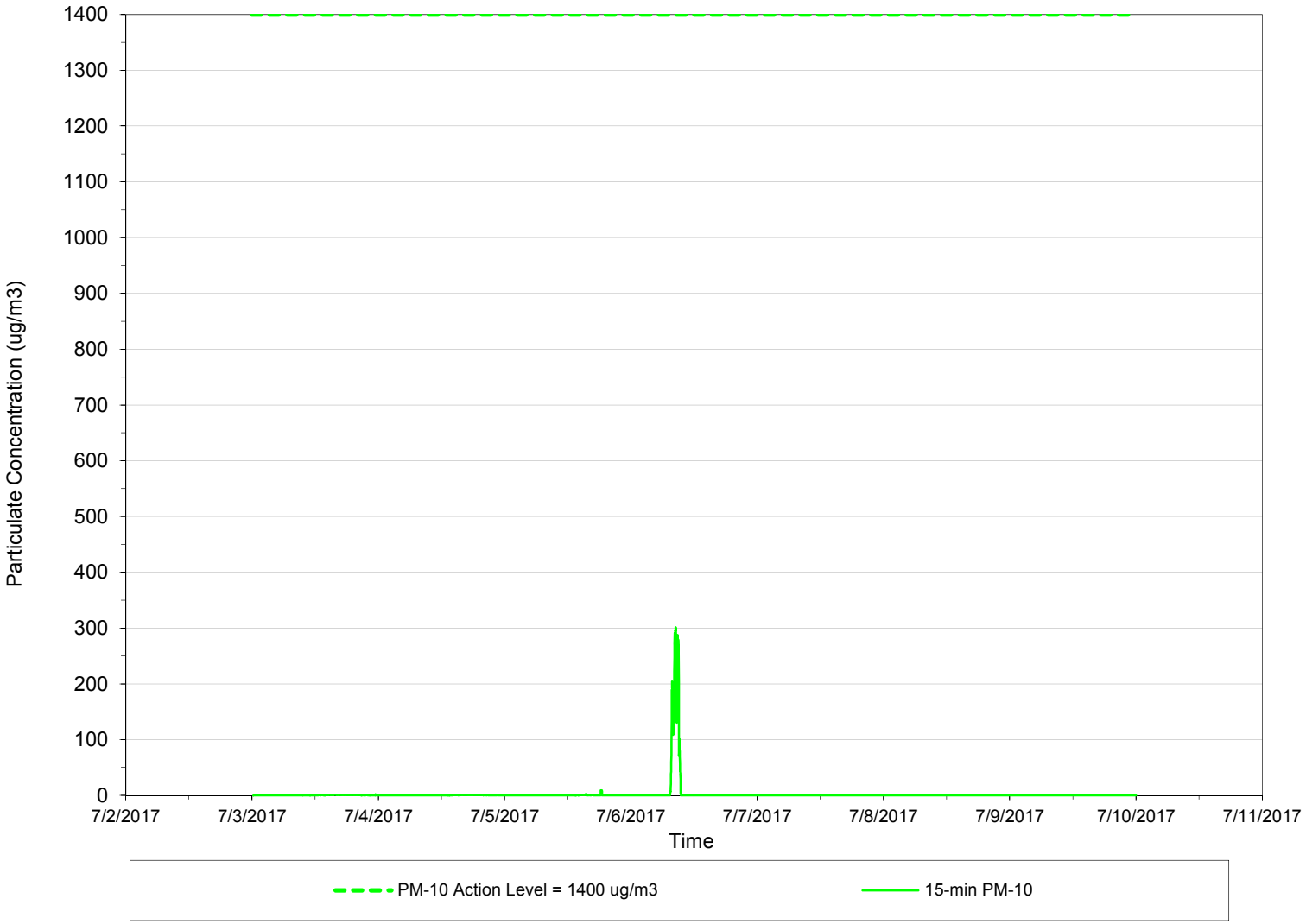
Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jul10,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.07

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/3/2017	2.35
7/4/2017	0.98
7/5/2017	9.19
7/6/2017	301.45
7/7/2017	0.00
7/8/2017	0.00
7/9/2017	0.00

Wind Summary Statistics	
CALM	22%
UW	2%
UW/CW	0%
CW	0%
CW/DW	1%
DW	60%
DW/CW	1%
CW/UW	13%
	0%

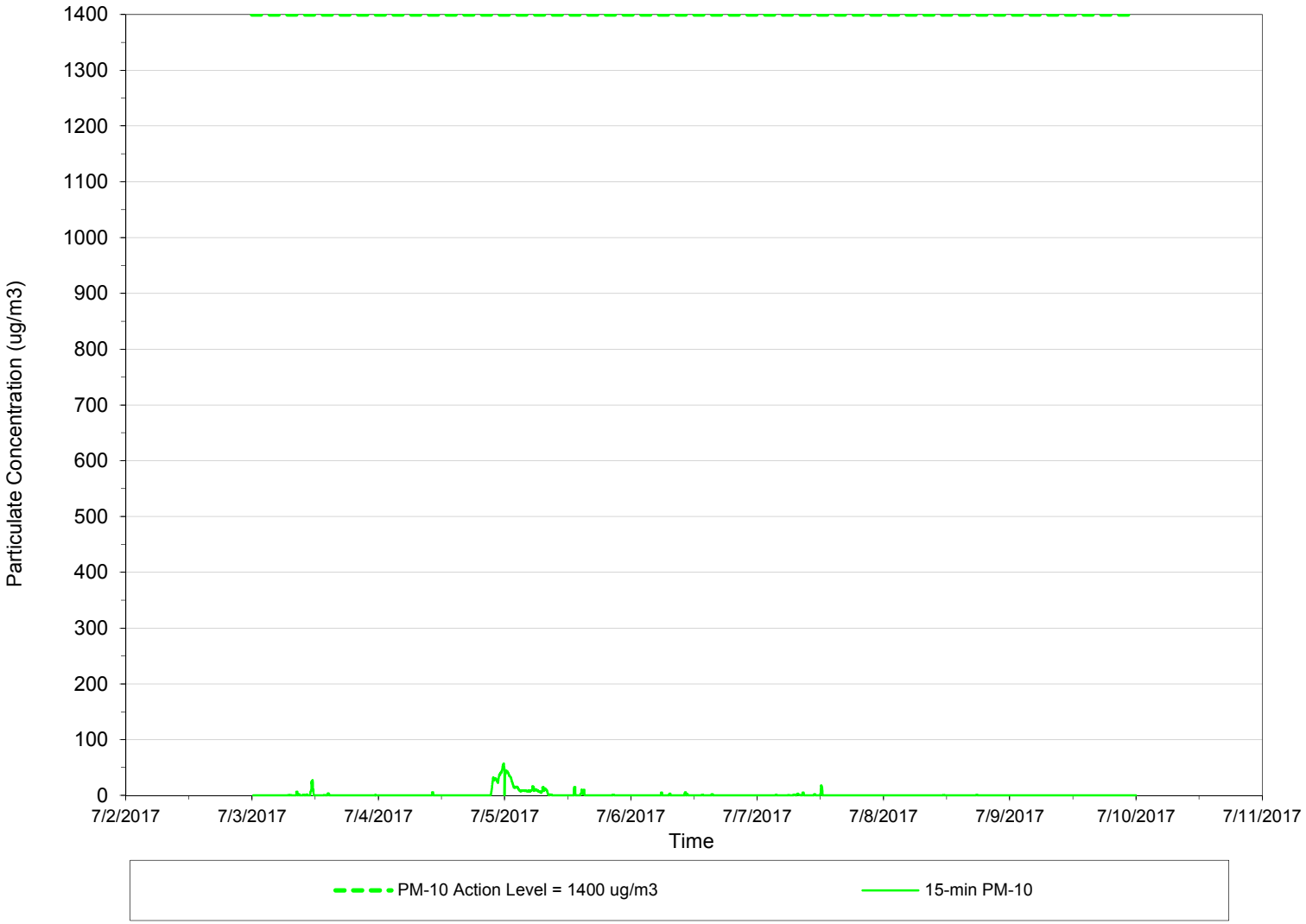
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AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.51

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/3/2017	27.30
7/4/2017	57.82
7/5/2017	44.74
7/6/2017	5.70
7/7/2017	17.94
7/8/2017	1.24
7/9/2017	0.00

Wind Summary Statistics

CALM	22%
UW	55%
UW/CW	1%
CW	4%
CW/DW	1%
DW	16%
DW/CW	0%
CW/UW	0%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA2_WEEKLYJul17.xls

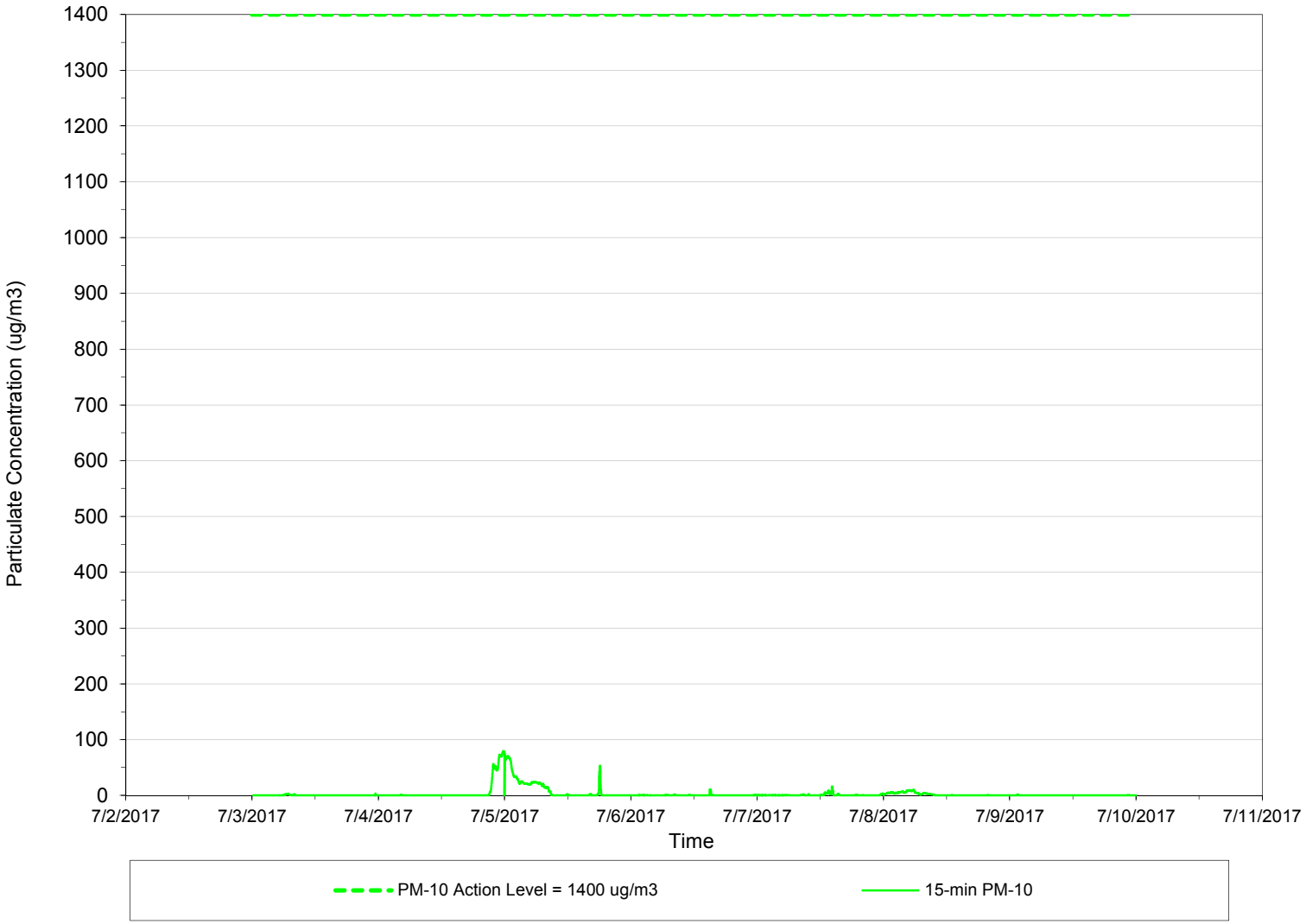
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Jul10,2017

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 = 2.98

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/3/2017	3.46
7/4/2017	79.67
7/5/2017	74.01
7/6/2017	10.62
7/7/2017	15.85
7/8/2017	10.71
7/9/2017	1.71

Wind Summary Statistics	
CALM	22%
UW	53%
UW/CW	0%
CW	0%
CW/DW	0%
DW	13%
DW/CW	0%
CW/UW	12%
	0%

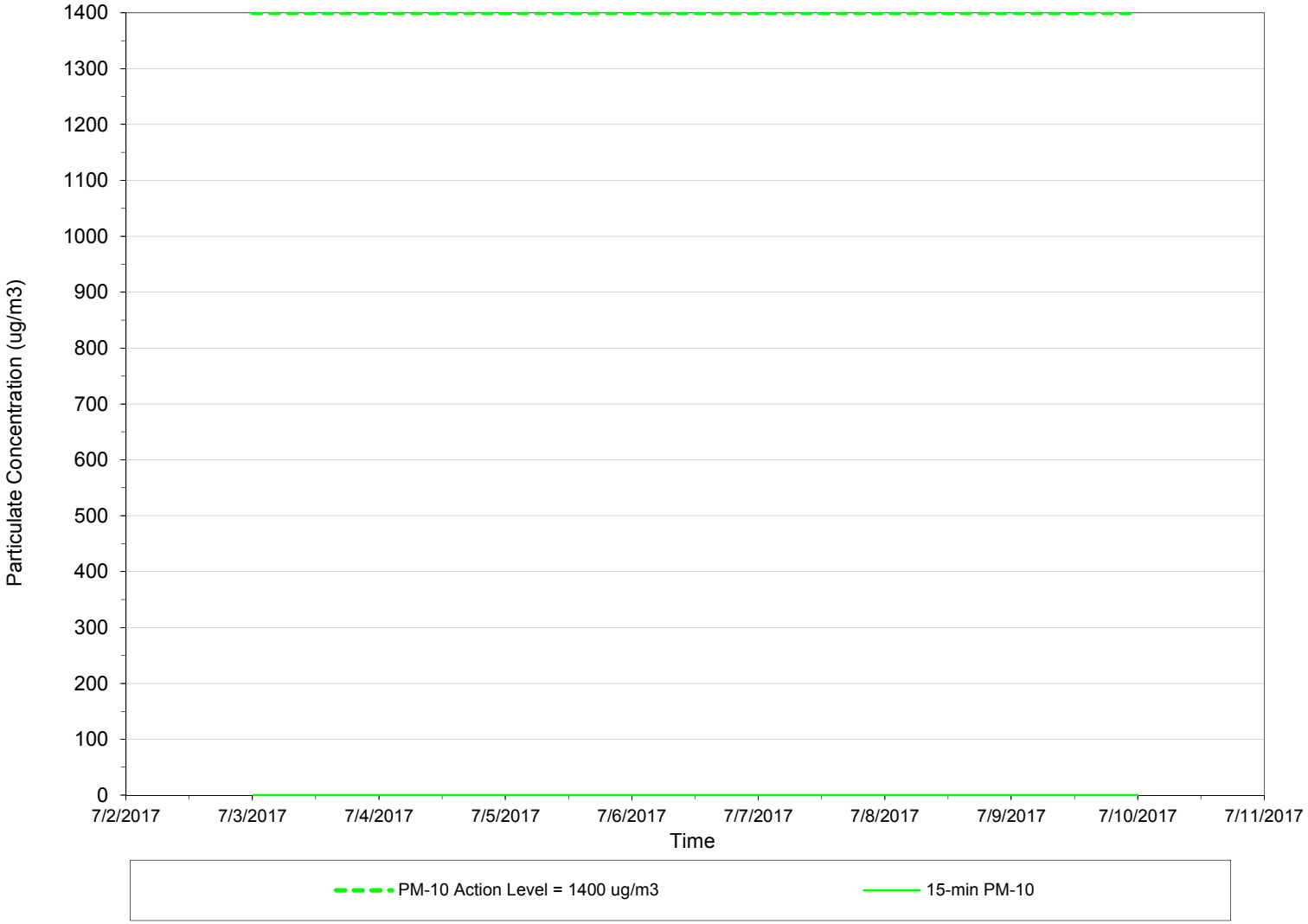
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA3_WEEKLYJul17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Jul10,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/3/2017	0.00
7/4/2017	0.00
7/5/2017	0.00
7/6/2017	0.00
7/7/2017	0.00
7/8/2017	0.00
7/9/2017	0.00

Wind Summary Statistics	
CALM	22%
UW	0%
UW/CW	0%
CW	11%
CW/DW	2%
DW	50%
DW/CW	2%
CW/UW	14%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA4_WEEKLYJul17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

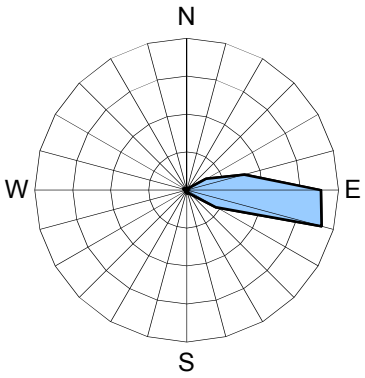


Figure 1. Wind rose for the period 7/3/2017 through 7/9/2017

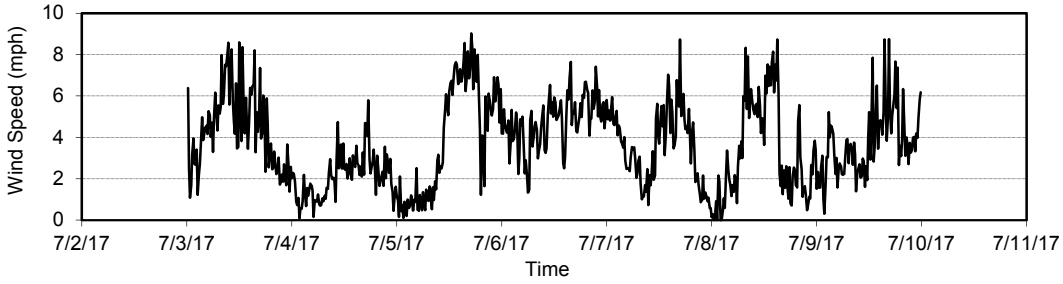


Figure 2. Wind speed for the period 7/3/2017 through 7/9/2017

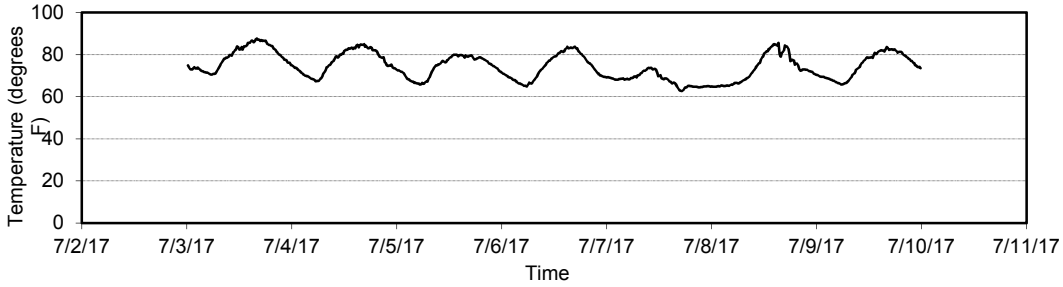


Figure 3. Temperature for the period 7/3/2017 through 7/9/2017

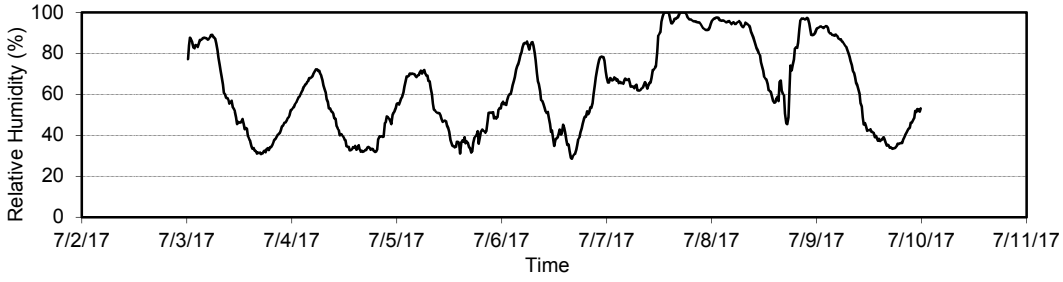


Figure 4. Relative humidity for the period 7/3/2017 through 7/9/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jul17,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/10/2017	0.00
7/11/2017	0.00
7/12/2017	0.00
7/13/2017	0.00
7/14/2017	0.00
7/15/2017	0.00
7/16/2017	0.00

Wind Summary Statistics	
CALM	15%
UW	1%
UW/CW	0%
CW	0%
CW/DW	1%
DW	43%
DW/CW	4%
CW/UW	35%
	0%

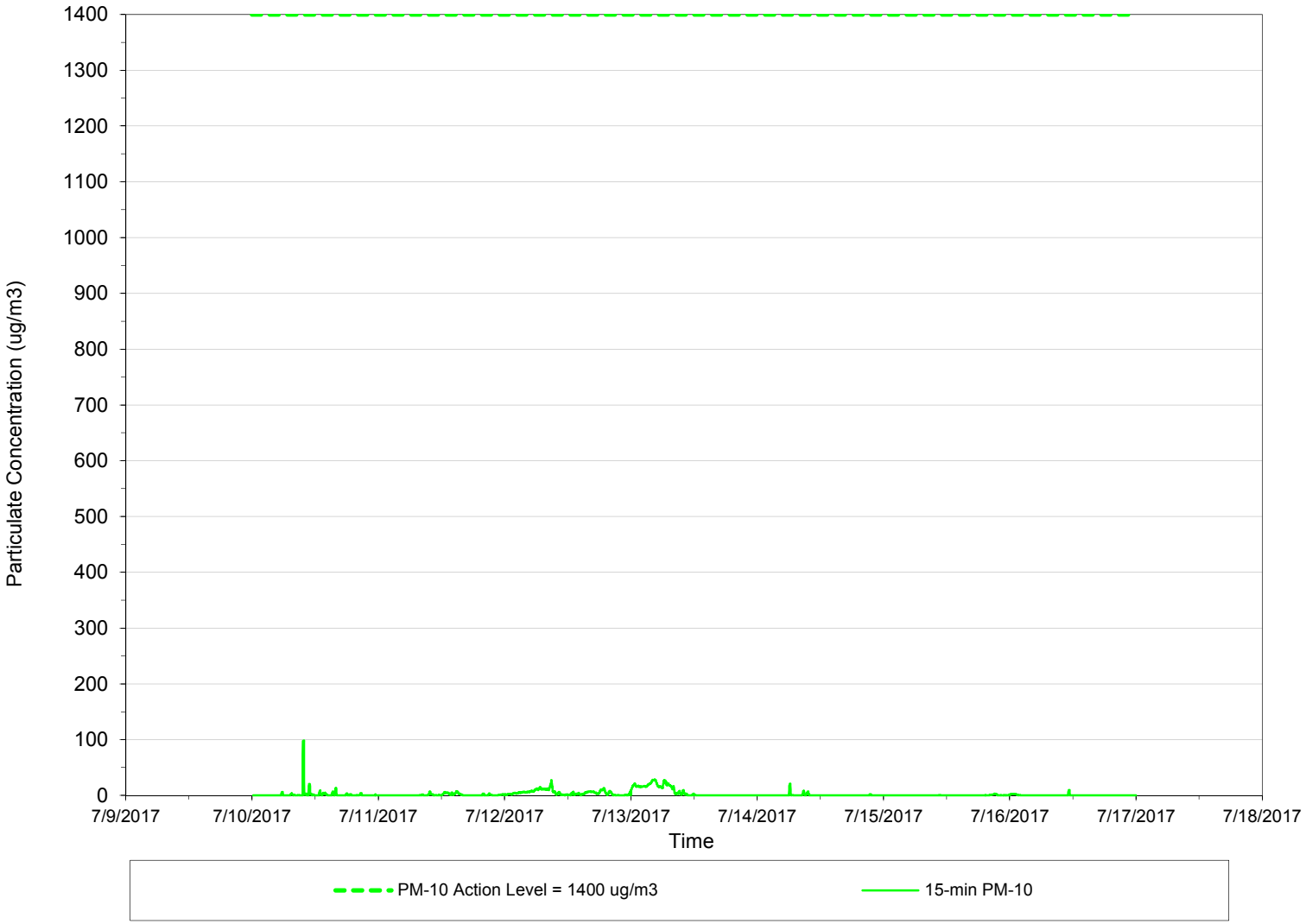
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA1_WEEKLYJul17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Jul17,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.29

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/10/2017	98.63
7/11/2017	7.66
7/12/2017	27.56
7/13/2017	28.81
7/14/2017	21.00
7/15/2017	3.38
7/16/2017	9.45

Wind Summary Statistics	
CALM	15%
UW	38%
UW/CW	0%
CW	4%
CW/DW	4%
DW	39%
DW/CW	1%
CW/UW	0%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA2_WEEKLYJul17.xls

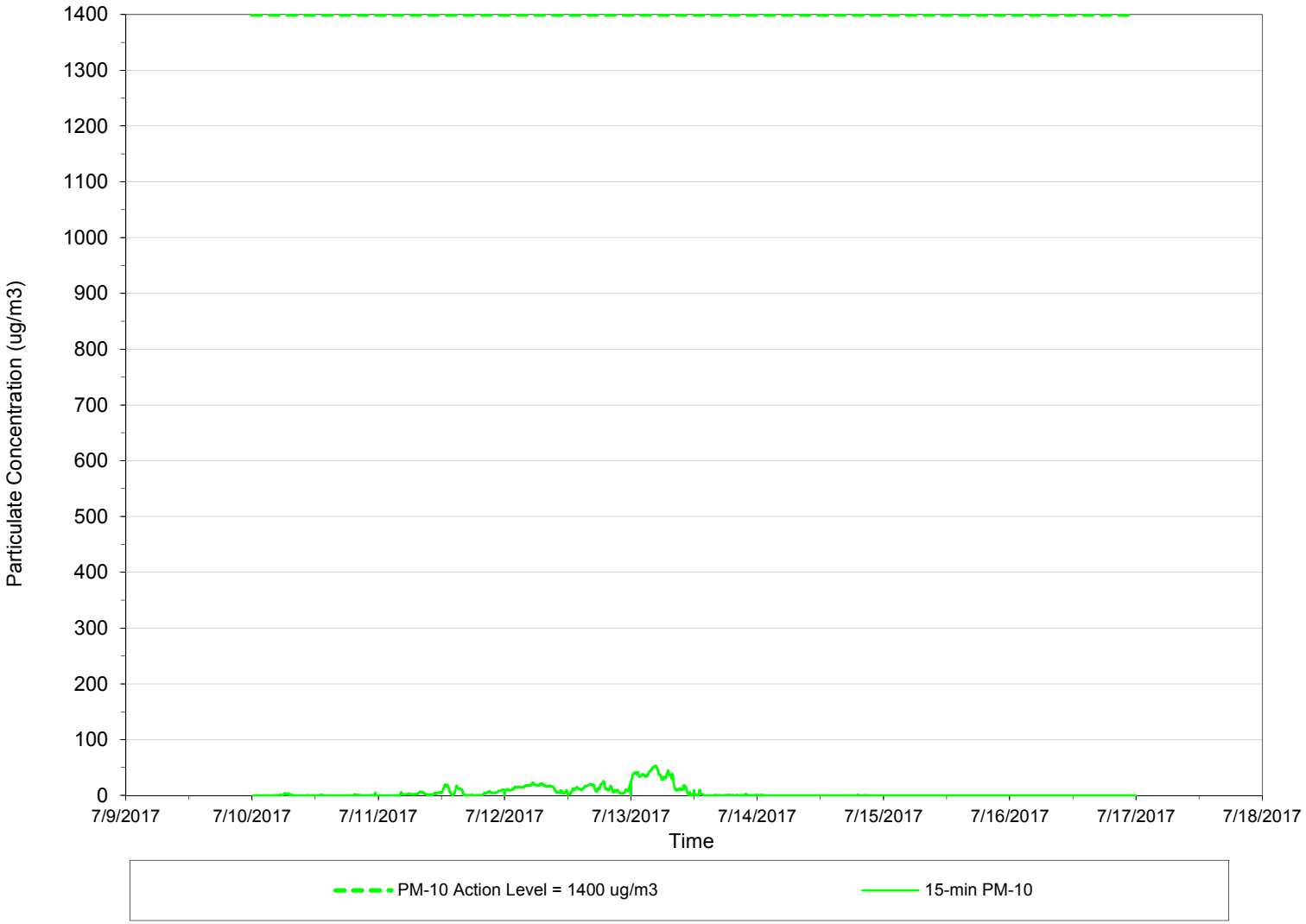
AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
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Jul17,2017

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 = 4.60

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/10/2017	5.33
7/11/2017	19.40
7/12/2017	25.79
7/13/2017	53.03
7/14/2017	0.53
7/15/2017	0.00
7/16/2017	0.00

Wind Summary Statistics	
CALM	15%
UW	46%
UW/CW	0%
CW	0%
CW/DW	0%
DW	10%
DW/CW	0%
CW/UW	29%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA3_WEEKLYJul17.xls

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Jul17,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/10/2017	0.00
7/11/2017	0.00
7/12/2017	0.00
7/13/2017	0.00
7/14/2017	0.00
7/15/2017	0.00
7/16/2017	0.00

Wind Summary Statistics	
CALM	15%
UW	0%
UW/CW	0%
CW	10%
CW/DW	2%
DW	35%
DW/CW	0%
CW/UW	38%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA4_WEEKLYJul17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

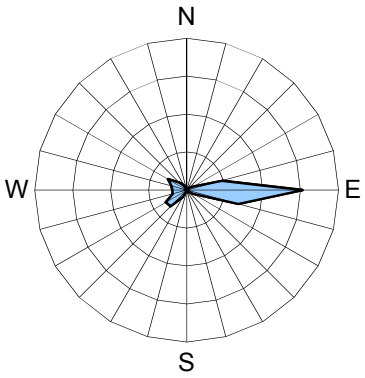


Figure 1. Wind rose for the period 7/10/2017 through 7/16/2017

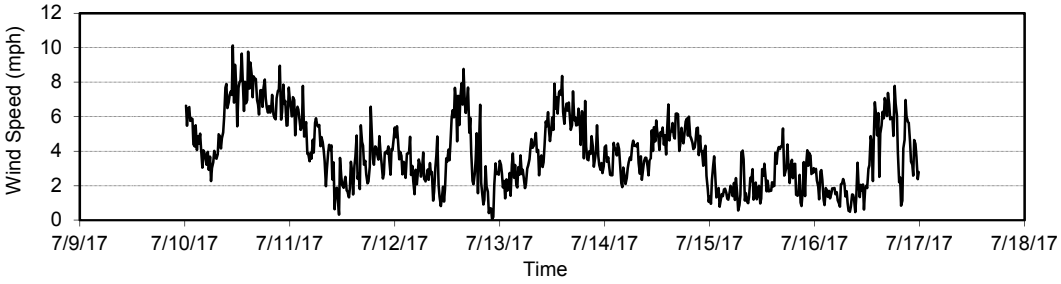


Figure 2. Wind speed for the period 7/10/2017 through 7/16/2017

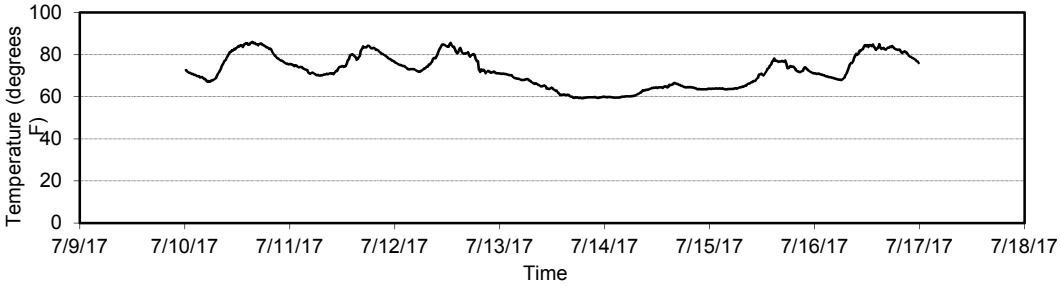


Figure 3. Temperature for the period 7/10/2017 through 7/16/2017

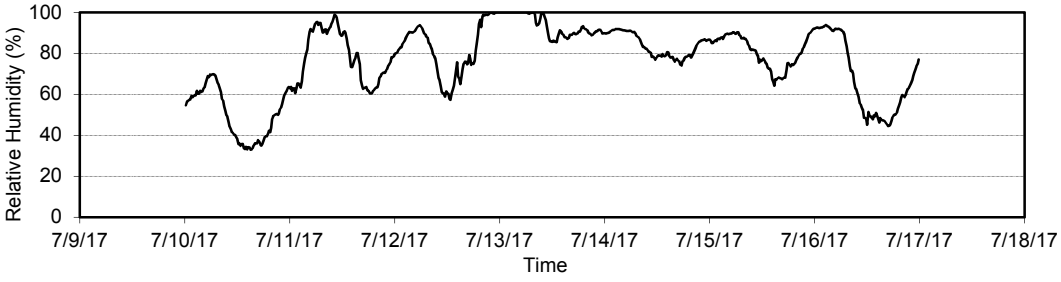


Figure 4. Relative humidity for the period 7/10/2017 through 7/16/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Jul24,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 1
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 10.92

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/17/2017	12.76
7/18/2017	88.09
7/19/2017	39.35
7/20/2017	29.66
7/21/2017	34.17
7/22/2017	36.68
7/23/2017	40.78

Wind Summary Statistics	
CALM	23%
UW	3%
UW/CW	0%
CW	0%
CW/DW	1%
DW	52%
DW/CW	1%
CW/UW	20%
	0%

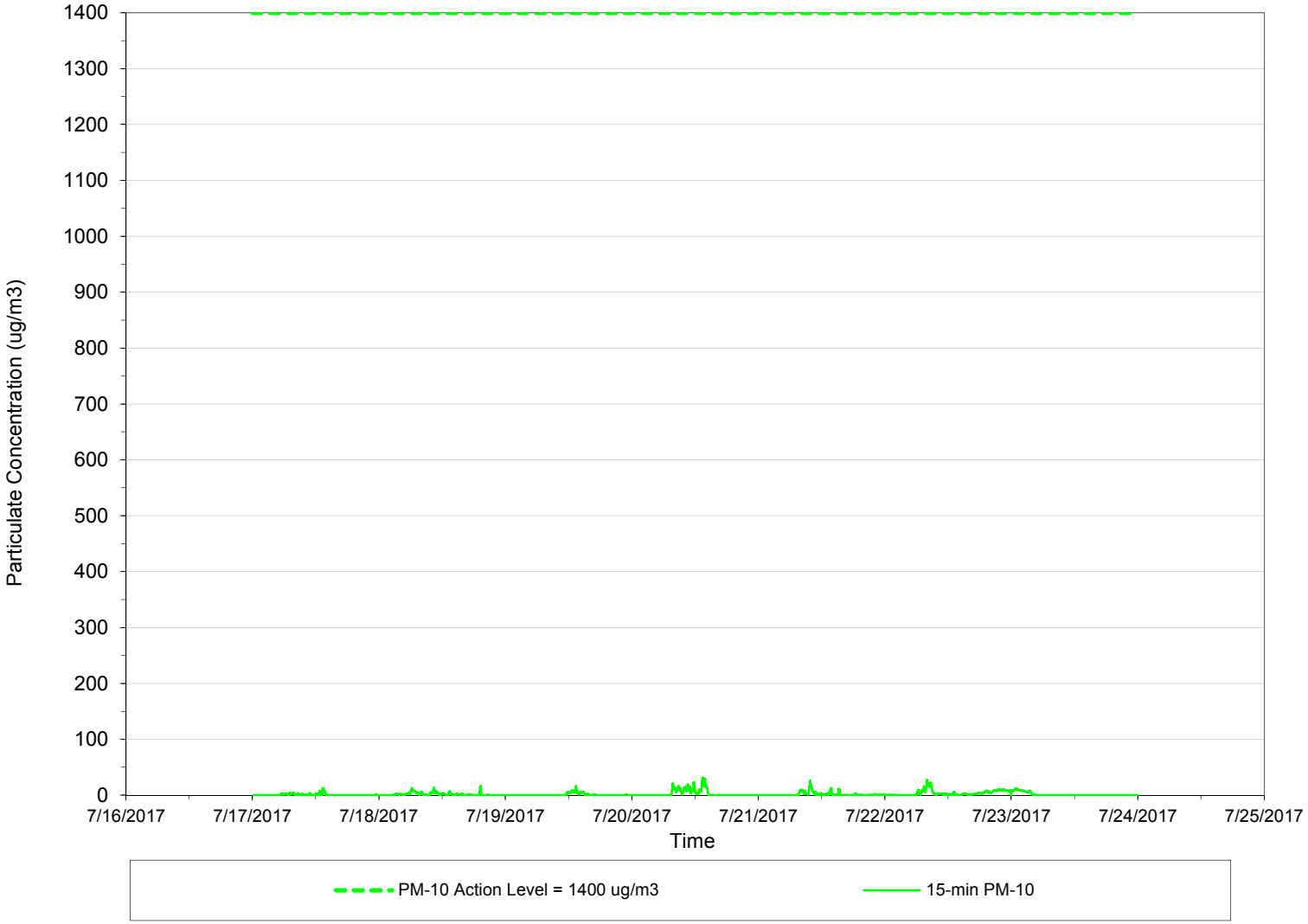
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA1_WEEKLYJul17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
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Jul24,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 2
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.03

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/17/2017	12.96
7/18/2017	16.72
7/19/2017	16.64
7/20/2017	31.92
7/21/2017	26.92
7/22/2017	28.34
7/23/2017	11.65

Wind Summary Statistics	
CALM	23%
UW	50%
UW/CW	0%
CW	2%
CW/DW	1%
DW	23%
DW/CW	0%
CW/UW	0%
	0%

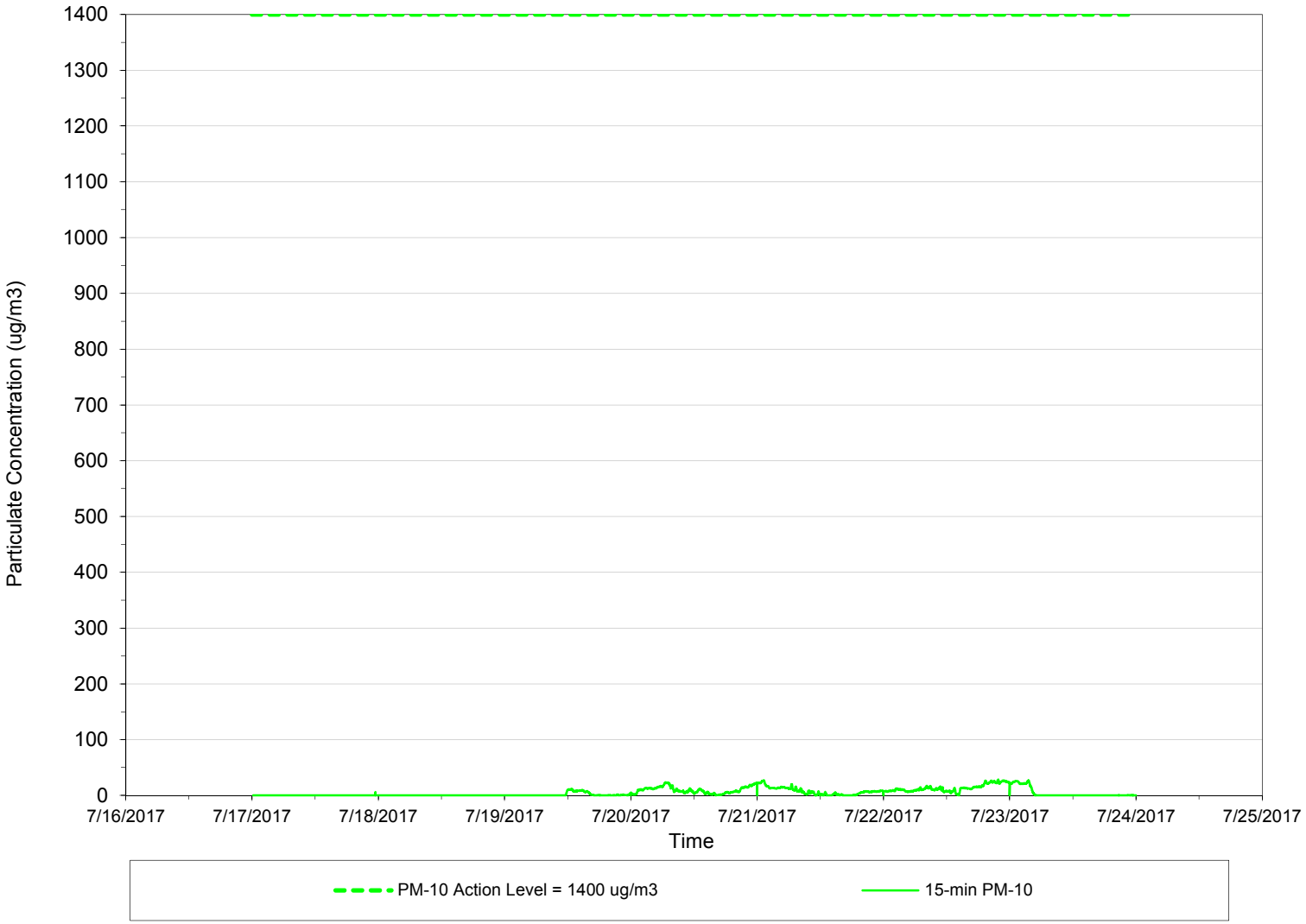
Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA2_WEEKLYJul17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
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Jul24,2017

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 = 5.22

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/17/2017	6.10
7/18/2017	0.00
7/19/2017	11.52
7/20/2017	23.43
7/21/2017	26.97
7/22/2017	28.37
7/23/2017	27.12

Wind Summary Statistics	
CALM	23%
UW	45%
UW/CW	0%
CW	0%
CW/DW	0%
DW	14%
DW/CW	0%
CW/UW	19%
	0%

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PERIMETER AIR MONITORING SYSTEMS
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Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA3_WEEKLYJul17.xls

Jul24,2017

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 4

15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 0.00

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/17/2017	0.00
7/18/2017	0.00
7/19/2017	0.00
7/20/2017	0.00
7/21/2017	0.00
7/22/2017	0.00
7/23/2017	0.00

Wind Summary Statistics	
CALM	23%
UW	0%
UW/CW	0%
CW	10%
CW/DW	2%
DW	42%
DW/CW	3%
CW/UW	20%
	0%

Filename: C:\Users\daniel.scanlon\Desktop\Wynn Boston Harbor\Air Logics\weekly data files\July 2017\STA4_WEEKLYJul17.xls

AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

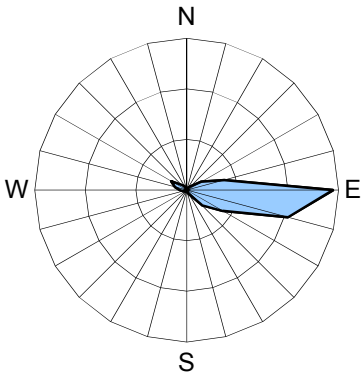


Figure 1. Wind rose for the period 7/17/2017 through 7/23/2017

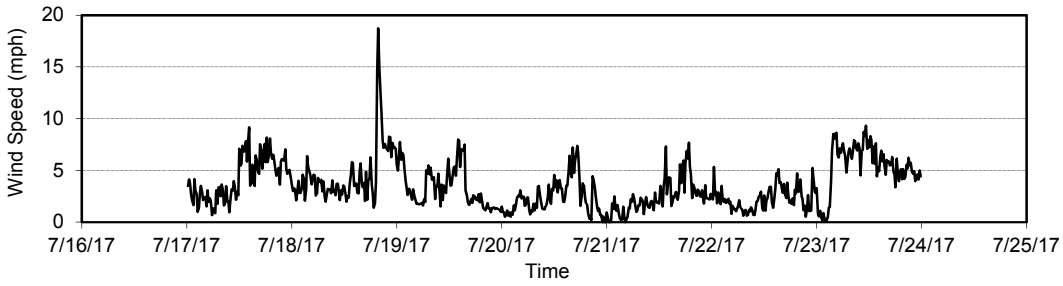


Figure 2. Wind speed for the period 7/17/2017 through 7/23/2017

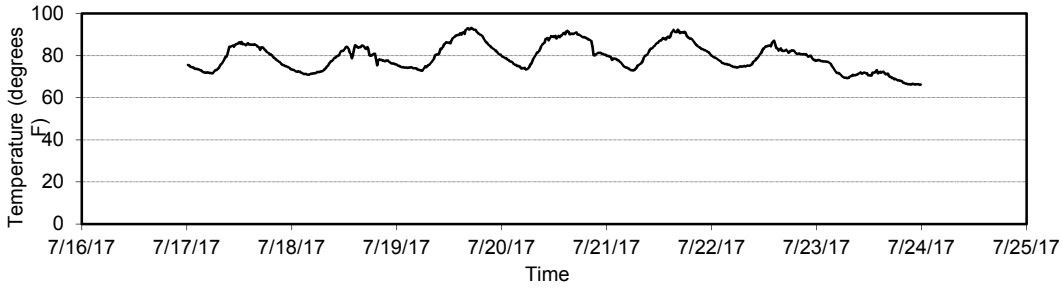


Figure 3. Temperature for the period 7/17/2017 through 7/23/2017

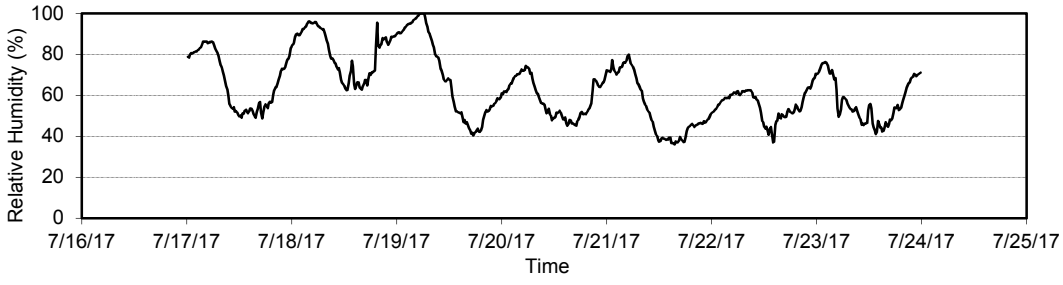


Figure 4. Relative humidity for the period 7/17/2017 through 7/23/2017

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Appendix G - Asbestos Laboratory Reports

(Supporting Documentation Transaction for RAM Status Report #2 Transaction 948807)

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February 9, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52
CEI LAB CODE: A17-1986

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on February 9, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52

CEI LAB CODE: A17-1986

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 02/09/17

TOTAL SAMPLES ANALYZED: 7

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 **CEI LAB CODE:** A17-1986

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
MBTA_WMLOOP_S1		A2321548	Red,Brown	Soil	None Detected
MBTA_WMLOOP_S2		A2321549	Red,Brown	Soil	None Detected
MBTA_WMLOOP_S3		A2321550	Black,Brown	Soil	None Detected
MBTA_WMLOOP_S4		A2321551	Black,Brown	Soil	None Detected
MBTA_WMLOOP_S5		A2321552	Black,Brown	Soil	None Detected
MBTA_WMLOOP_S6		A2321553	Black,Gray	Soil	None Detected
MBTA_WMLOOP_S7		A2321554	Black,Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-1986
Date Received: 02-09-17
Date Analyzed: 02-09-17
Date Reported: 02-09-17

Project: Wynn Boston Harbor; 01.017521.52

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
MBTA_WML OOP_S1 A2321548	Soil	Heterogeneous Red,Brown Fibrous Loosely Bound	<1%	Cellulose	70% 30%	SOIL Gravel	None Detected
MBTA_WML OOP_S2 A2321549	Soil	Heterogeneous Red,Brown Fibrous Loosely Bound	<1%	Cellulose	70% 30%	SOIL Gravel	None Detected
MBTA_WML OOP_S3 A2321550	Soil	Heterogeneous Black,Brown Fibrous Loosely Bound	<1%	Cellulose	65% 35%	SOIL Gravel	None Detected
MBTA_WML OOP_S4 A2321551	Soil	Heterogeneous Black,Brown Fibrous Loosely Bound	<1%	Cellulose	65% 35%	SOIL Gravel	None Detected
MBTA_WML OOP_S5 A2321552	Soil	Heterogeneous Black,Brown Fibrous Loosely Bound	<1%	Cellulose	65% 35%	SOIL Gravel	None Detected
MBTA_WML OOP_S6 A2321553	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	SOIL	None Detected
MBTA_WML OOP_S7 A2321554	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	SOIL	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Scott Minyard

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

(1) A17-1986
A2321548-
A2321554

ASBESTOS CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	2/8/17 @ 12:00	DC	2-9-17 9:10

Samples will be disposed of 30 days after analysis

A17.986

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
MBTA_WMLOOP_S1	MBTA WATER MAIN STOCKPILES	70 CY	PLM X	TEM ☐
MBTA_WMLOOP_S2			PLM X	TEM ☐
MBTA_WMLOOP_S3			PLM X	TEM ☐
MBTA_WMLOOP_S4			PLM X	TEM ☐
MBTA_WMLOOP_S5			PLM X	TEM ☐
MBTA_WMLOOP_S6			PLM X	TEM ☐
MBTA_WMLOOP_S7			PLM X	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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			PLM	TEM ☐
			PLM	TEM ☐

February 9, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52
CEI LAB CODE: A17-1987

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on February 9, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52

CEI LAB CODE: A17-1987

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 02/09/17

TOTAL SAMPLES ANALYZED: 17

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 **CEI LAB CODE:** A17-1987

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Shoreline Stockpile -4A(North)		A2321555	Gray,Black	Soil	None Detected
Shoreline Stockpile -4A(Central)		A2321556	Gray,Black	Soil	None Detected
Shoreline Stockpile -4A(South)		A2321557	Gray,Black	Soil	None Detected
Shoreline Stockpile -4B(North)		A2321558	Gray,Black	Soil	None Detected
Shoreline Stockpile -4B(Central)		A2321559	Gray,Black	Soil	None Detected
Shoreline Stockpile -4B(South)		A2321560	Gray,Black	Soil	None Detected
Shoreline Stockpile -4C(North)		A2321561	Brown,Gray	Soil	None Detected
Shoreline Stockpile -4C(Central)		A2321562	Brown,Gray	Soil	None Detected
Shoreline Stockpile -4C(South)		A2321563	Brown,Gray	Soil	None Detected
Shoreline Stockpile -4D(North)		A2321564	Gray,Brown	Soil	None Detected
Shoreline Stockpile -4D(Central)		A2321565	Gray,Brown	Soil	None Detected
Shoreline Stockpile -4D(South)		A2321566	Gray,Brown	Soil	None Detected
Shoreline Stockpile -4E(North)		A2321567	Gray,Brown	Soil	None Detected
Shoreline Stockpile -4E(Central)		A2321568	Gray,Brown	Soil	None Detected
Shoreline Stockpile -4E(South)		A2321569	Gray,Brown	Soil	None Detected
Shoreline Stockpile -4F(North)		A2321570	Gray,Brown	Soil	None Detected
Shoreline Stockpile -4F(South)		A2321571	Gray,Brown	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-1987
Date Received: 02-09-17
Date Analyzed: 02-09-17
Date Reported: 02-09-17

Project: Wynn Boston Harbor; 01.017521.52

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile-4A (North) A2321555	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	3%	Cellulose	97%	Soil	None Detected
Shoreline Stockpile-4A (Central) A2321556	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	3%	Cellulose	97%	Soil	None Detected
Shoreline Stockpile-4A (South) A2321557	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	3%	Cellulose	97%	Soil	None Detected
Shoreline Stockpile-4B (North) A2321558	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	3%	Cellulose	97%	Soil	None Detected
Shoreline Stockpile-4B (Central) A2321559	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile-4B (South) A2321560	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile-4C (North) A2321561	Soil	Heterogeneous Brown,Gray Fibrous Loosely Bound	2%	Cellulose	98%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-1987
Date Received: 02-09-17
Date Analyzed: 02-09-17
Date Reported: 02-09-17

Project: Wynn Boston Harbor; 01.017521.52

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile-4C (Central) A2321562	Soil	Heterogeneous Brown,Gray Fibrous Loosely Bound	2%	Cellulose	98%	Soil	None Detected
Shoreline Stockpile-4C (South) A2321563	Soil	Heterogeneous Brown,Gray Fibrous Loosely Bound	2%	Cellulose	98%	Soil	None Detected
Shoreline Stockpile-4D (North) A2321564	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	2%	Cellulose	98%	Soil	None Detected
Shoreline Stockpile-4D (Central) A2321565	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	2%	Cellulose	98%	Soil	None Detected
Shoreline Stockpile-4D (South) A2321566	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	2%	Cellulose	98%	Soil	None Detected
Shoreline Stockpile-4E (North) A2321567	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile-4E (Central) A2321568	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-1987
Date Received: 02-09-17
Date Analyzed: 02-09-17
Date Reported: 02-09-17

Project: Wynn Boston Harbor; 01.017521.52

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		 Non-Fibrous		ASBESTOS %
Shoreline Stockpile-4E (South) A2321569	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile-4F (North) A2321570	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile-4F (South) A2321571	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Greg Ruff

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

(17) A17-1987
A232 1555-
A232157

ASBESTOS CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	2/6/15 @ 15:00 hrs.	DL	2-9-17 9:10

Samples will be disposed of 30 days after analysis

A17.1987

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Shoreline Stockpile - 4A (North)	Shoreline Stockpile 4 ~~Nearshore Area~~	100 CY	PLM X	TEM ☐
Shoreline Stockpile - 4A (central)	Shoreline Stockpile 4		PLM X	TEM ☐
Shoreline Stockpile - 4A (South)			PLM X	TEM ☐
Shoreline Stockpile - 4B (North)			PLM X	TEM ☐
Shoreline Stockpile - 4B (central)			PLM X	TEM ☐
Shoreline Stockpile - 4B (South)			PLM X	TEM ☐
Shoreline Stockpile - 4C (North)			PLM X	TEM ☐
Shoreline Stockpile - 4C (central)			PLM X	TEM ☐
Shoreline Stockpile - 4C (South)			PLM X	TEM ☐
Shoreline Stockpile - 4D (North)			PLM X	TEM ☐
Shoreline Stockpile - 4D (central)			PLM X	TEM ☐
Shoreline Stockpile - 4D (South)			PLM X	TEM ☐
Shoreline Stockpile - 4E (North)			PLM X	TEM ☐
Shoreline Stockpile - 4E (central)			PLM X	TEM ☐
Shoreline Stockpile - 4E (South)			PLM X	TEM ☐
Shoreline Stockpile - 4F (North)	↓	↓	PLM X	TEM ☐
~~Shoreline Stockpile - 4F (central)~~	–	–	PLM	TEM ☐
Shoreline Stockpile - 4F (South)	Shoreline Stockpile 4	100 CY	PLM X	TEM ☐
~~Shoreline Stockpile - 4F (South)~~			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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			PLM	TEM ☐
			PLM	TEM ☐

February 17, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52
CEI LAB CODE: A17-2520

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on February 17, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52

CEI LAB CODE: A17-2520

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 02/17/17

TOTAL SAMPLES ANALYZED: 14

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 **CEI LAB CODE:** A17-2520

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Shoreline Stockpile -2A (East)		A2330198	Gray	Soil	None Detected
Shoreline Stockpile -2A (Middle)		A2330199	Brown	Soil	None Detected
Shoreline Stockpile -2A (West)		A2330200	Gray	Soil	None Detected
Shoreline Stockpile -2B (East)		A2330201	Gray	Soil	None Detected
Shoreline Stockpile -2B (Middle)		A2330202	Brown	Soil	None Detected
Shoreline Stockpile-2B (West)		A2330203	Brown	Soil	None Detected
Shoreline Stockpile-2C (East)		A2330204	Gray	Soil	None Detected
Shoreline Stockpile-2C (Middle)		A2330205	Gray	Soil	None Detected
Shoreline Stockpile-2C (West)		A2330206	Brown	Soil	None Detected
Shoreline Stockpile-2D (East)		A2330207	Gray	Soil	None Detected
Shoreline Stockpile-2D (Middle)		A2330208	Brown	Soil	None Detected
Shoreline Stockpile-2D (West)		A2330209	Brown	Soil	None Detected
Shoreline Stockpile-2E (East)		A2330210	Gray	Soil	None Detected
Shoreline Stockpile-2E (West)		A2330211	Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-2520
Date Received: 02-17-17
Date Analyzed: 02-17-17
Date Reported: 02-17-17

Project: Wynn Boston Harbor; 01.017521.52

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile -2A (East) A2330198	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Lab Notes: Sample A2330198-A2330202 analyzed by Shilpa Ladekar.							
Shoreline Stockpile -2A (Middle) A2330199	Soil	Heterogeneous Brown Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile -2A (West) A2330200	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile -2B (East) A2330201	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile -2B (Middle) A2330202	Soil	Heterogeneous Brown Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile-2B (West) A2330203	Soil	Heterogeneous Brown Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Lab Notes: Sample A2330203-A2330207 analyzed by M. Rumble							
Shoreline Stockpile-2C (East) A2330204	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-2520
Date Received: 02-17-17
Date Analyzed: 02-17-17
Date Reported: 02-17-17

Project: Wynn Boston Harbor; 01.017521.52

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile-2C (Middle) A2330205	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile-2C (West) A2330206	Soil	Heterogeneous Brown Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile-2D (East) A2330207	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile-2D (Middle) A2330208	Soil	Heterogeneous Brown Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Lab Notes: Samples A2330208-A2330211 analyzed by S. Card							
Shoreline Stockpile-2D (West) A2330209	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile-2E (East) A2330210	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected
Shoreline Stockpile-2E (West) A2330211	Soil	Heterogeneous Gray Fibrous Loose	5%	Cellulose	95%	Soil	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Megan Rumble

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

Shilpa Ladekar

NVLAP TESTING
NVLAP LAB CODE 101768-0

(14) A17-2520
A23J0178-
A23J0211

ASBESTOS CHAIN OF CUSTODY

CEI LABS
730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	2/14/17 @ 14:25 hrs.	DC	2-17-17 9:20

Samples will be disposed of 30 days after analysis

A17-2520

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Shoreline Stockpile - 2A (East)	Shoreline Stockpile #2	100 CY	PLM X	TEM ☐
Shoreline Stockpile - 2A (middle)	↓	↓	PLM X	TEM ☐
Shoreline Stockpile - 2A (West)			PLM X	TEM ☐
Shoreline Stockpile - 2B (East)			PLM X	TEM ☐
Shoreline Stockpile - 2B (middle)			PLM X	TEM ☐
Shoreline Stockpile - 2B (West)			PLM X	TEM ☐
Shoreline Stockpile - 2C (East)			PLM X	TEM ☐
Shoreline Stockpile - 2C (middle)			PLM X	TEM ☐
Shoreline Stockpile - 2C (West)			PLM X	TEM ☐
Shoreline Stockpile - 2D (East)			PLM X	TEM ☐
Shoreline Stockpile - 2D (middle)			PLM X	TEM ☐
Shoreline Stockpile - 2D (West)			PLM X	TEM ☐
Shoreline Stockpile - 2E (East)			PLM X	TEM ☐
Shoreline Stockpile - 2E (West)	↓	↓	PLM X	TEM ☐
			PLM	TEM ☐
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March 10, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52
CEI LAB CODE: A17-3610

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on March 10, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52

CEI LAB CODE: A17-3610

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/10/17

TOTAL SAMPLES ANALYZED: 7

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 **CEI LAB CODE:** A17-3610

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
MBTA WM West Stockpile-1		A2347854	Brown,Black	Soil	None Detected
MBTA WM West Stockpile-2		A2347855	Brown,Black	Soil	None Detected
MBTA WM West Stockpile-3		A2347856	Brown,Black	Soil	None Detected
MBTA WM West Stockpile-4		A2347857	Brown,Black	Soil	None Detected
MBTA WM West Stockpile-5		A2347858	Brown,Black	Soil	None Detected
MBTA WM West Stockpile-6		A2347859	Brown,Black	Soil	None Detected
MBTA WM West Stockpile-7		A2347860	Brown,Black	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-3610
Date Received: 03-10-17
Date Analyzed: 03-10-17
Date Reported: 03-10-17

Project: Wynn Boston Harbor; 01.017521.52

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
MBTA WM West Stockpile-1 A2347854	Soil	Heterogeneous Brown,Black Fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
MBTA WM West Stockpile-2 A2347855	Soil	Heterogeneous Brown,Black Fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
MBTA WM West Stockpile-3 A2347856	Soil	Heterogeneous Brown,Black Fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
MBTA WM West Stockpile-4 A2347857	Soil	Heterogeneous Brown,Black Fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
MBTA WM West Stockpile-5 A2347858	Soil	Heterogeneous Brown,Black Fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
MBTA WM West Stockpile-6 A2347859	Soil	Heterogeneous Brown,Black Fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
MBTA WM West Stockpile-7 A2347860	Soil	Heterogeneous Brown,Black Fibrous Bound	<1%	Cellulose	100%	Soil	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Greg Ruff

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS CHAIN OF CUSTODY

(7) A17.3610
A2347854.
A2347866

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	3/9/17 @ 15:00 hrs.	DC	3-10-17 10:20

Samples will be disposed of 30 days after analysis

A17. 3810

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
MBTA WM West Stockpile-1	(MBTA Water-main West Stockpile)	70 CY	PLM X	TEM ☐
MBTA WM West Stockpile - 2		70 CY	PLM X	TEM ☐
MBTA WM West Stockpile - 3		70 CY	PLM X	TEM ☐
MBTA WM West Stockpile - 4		70 CY	PLM X	TEM ☐
MBTA WM West Stockpile - 5		70 CY	PLM X	TEM ☐
MBTA WM West Stockpile - 6		70 CY	PLM X	TEM ☐
MBTA WM West Stockpile - 7		70 CY	PLM X	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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May 8, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: A17-6590

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 8, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: A17-6590

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/08/17

TOTAL SAMPLES ANALYZED: 4

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** A17-6590

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Shoreline Stockpile #6A -1		A2395372	Brown,Gray	Soil	None Detected
Shoreline Stockpile #6B -1		A2395373	Brown,Gray	Soil	None Detected
Shoreline Stockpile #6C -1		A2395374	Brown,Gray	Soil	None Detected
Shoreline Stockpile #6D -1		A2395375	Brown,Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-6590
Date Received: 05-08-17
Date Analyzed: 05-08-17
Date Reported: 05-08-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		 Non-Fibrous		ASBESTOS %
Shoreline Stockpile #6A-1 A2395372	Soil	Heterogeneous Brown,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #6B-1 A2395373	Soil	Heterogeneous Brown,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #6C-1 A2395374	Soil	Heterogeneous Brown,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #6D-1 A2395375	Soil	Heterogeneous Brown,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

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

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.

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ANALYST: Greg Ruff

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS CHAIN OF CUSTODY

(4) A17.6590
A2395372-
A2395375

CEI LABS
730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/5/17 @ 15:30	A	5 8 17 9:20

Samples will be disposed of 30 days after analysis

Page __1__ of __2__

A17.6590

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Shoreline Stockpile #6A-1	Shoreline Stockpile #6	75 cy	PLM X	TEM ☐
Shoreline Stockpile #6B-1	↓	↓	PLM X	TEM ☐
Shoreline Stockpile #6C-1			PLM X	TEM ☐
Shoreline Stockpile #6D-1			PLM X	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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July 13, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: A17-9787

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on July 13, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: A17-9787

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 07/13/17

TOTAL SAMPLES ANALYZED: 4

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** A17-9787

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
OF-3A		A2445466	Brown/Black	Soil	None Detected
OF-3B		A2445467	Brown/Black	Soil	None Detected
OF-3C		A2445468	Brown/Black	Soil	None Detected
OF-3D		A2445469	Brown/Black	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-9787
Date Received: 07-13-17
Date Analyzed: 07-13-17
Date Reported: 07-13-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
OF-3A A2445466	Soil	Homogeneous Brown/Black Fibrous Loose	<1%	Cellulose	100%	SOIL	None Detected
OF-3B A2445467	Soil	Homogeneous Brown/Black Fibrous Loose	<1%	Cellulose	100%	SOIL	None Detected
OF-3C A2445468	Soil	Homogeneous Brown/Black Fibrous Loose	<1%	Cellulose	100%	SOIL	None Detected
OF-3D A2445469	Soil	Homogeneous Brown/Black Fibrous Loose	<1%	Cellulose	100%	SOIL	None Detected

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.

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ANALYST: Shilpa Ladekar

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS CHAIN OF CUSTODY

CD 477.9787
A244 5466.
A244 5469

CEI LABS
730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dai	7-12-17 @ 1640	FEDEX	
		AJ	71317 9:28

Samples will be disposed of 30 days after analysis

A17.97807

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
OF-3A			PLM	TEM ☐
OF-3B			PLM	TEM ☐
OF-3C			PLM	TEM ☐
OF-3D			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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July 28, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: A17-10670

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on July 28, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: A17-10670

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 07/28/17

TOTAL SAMPLES ANALYZED: 7

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** A17-10670

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Sewer Line S1		A2458980	Brown	Soil	None Detected
Sewer Line S2		A2458981	Brown	Soil	None Detected
Sewer Line S3		A2458982	Brown	Soil	None Detected
Sewer Line S4		A2458983	Brown	Soil	None Detected
Sewer Line S5		A2458984	Brown	Soil	None Detected
Sewer Line S6		A2458985	Brown	Soil	None Detected
Sewer Line S7		A2458986	Brown	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: A17-10670
Date Received: 07-28-17
Date Analyzed: 07-28-17
Date Reported: 07-28-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Sewer Line S1 A2458980	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Sewer Line S2 A2458981	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Sewer Line S3 A2458982	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Sewer Line S4 A2458983	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Sewer Line S5 A2458984	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Sewer Line S6 A2458985	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Sewer Line S7 A2458986	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Candace Burrus
Candace Burrus

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

(7) 17-10.670
A245980.
A245986

ASBESTOS CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com, Victoria.Ward@gza.com and matthew.dion@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
		A	7/28/17 9:16

Samples will be disposed of 30 days after analysis

Page __1__ of __2__

A7-10.670

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Sewer Line S1			PLM	TEM ☐
Sewer Line S2			PLM	TEM ☐
Sewer Line S3			PLM	TEM ☐
Sewer Line S4			PLM	TEM ☐
Sewer Line S5			PLM	TEM ☐
Sewer Line S6			PLM	TEM ☐
Sewer Line S7			PLM	TEM ☐
			PLM	TEM ☐
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April 17, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-0467

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 17, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-0467

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 04/17/17

TOTAL SAMPLES ANALYZED: 35

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-0467

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
B-26(NE)(0-3.3)		B236171	Gray	Soil	None Detected
B-26(NE)(3.3-6.6)		B236172	Gray	Soil	None Detected
B-26(NW)(0-3.3)		B236173	Brown	Soil	None Detected
B-26(NW)(3.3-6.6)		B236174	Brown	Soil	None Detected
B-26(SE)(0-3.3)		B236175	Gray,Brown	Soil	None Detected
B-26(SE)(3.3-6.6)		B236176	Brown	Soil	None Detected
B-26(SW)(0-3.3)		B236177	Brown,Gray	Soil	None Detected
B-26(SW)(3.3-6.6)		B236178	Brown	Soil	None Detected
B-27(NE)(0-3.3)		B236179	Gray	Soil	None Detected
B-27(NE)(3.3-6.6)		B236180	Purple/Brown, Tan	Soil	None Detected
B-27(NW)(0-3.3)		B236181	Gray	Soil	None Detected
B-27(NW)(3.3-6.6)		B236182	Brown	Soil	None Detected
B-27(SE)(0-3.3)		B236183	Brown,Gray	Soil	None Detected
B-27(SE)(3.3-6.6)		B236184	Brown	Soil	None Detected
B-27(SW)(0-3.3)		B236185	Brown,Gray	Soil	None Detected
B-27(SW)(3.3-6.6)		B236186	Tan	Soil	None Detected
C-25(NE)(0-3.3)		B236187	Black,Brown	Soil	None Detected
C-25(NE)(3.3-6.6)		B236188	Black,Brown	Soil	None Detected
C-25(SE)(0-3.3)		B236189	Black,Brown	Soil	None Detected
C-25(SE)(3.3-6.6)		B236190	Purple/Brown, Off-white	Soil	None Detected
C-24(NE)(0-3.3)		B236191	Brown	Soil	None Detected
C-24(NE)(3.3-6.6)		B236192	Brown	Soil	None Detected
C-24(NW)(0-3.3)		B236193	Brown	Soil	None Detected
C-24(NW)(3.3-6.6)		B236194	Brown	Soil	None Detected
C-24(SE)(0-3.3)		B236195	Black	Soil	None Detected
C-24(SE)(3.3-6.6)		B236196	Brown	Soil	None Detected
C-24(SW)(0-3.3)		B236197	Black	Soil	None Detected
C-24(SW)(3.3-6.6)		B236198	Gray	Soil	None Detected
Sand & Gravel from beneath Asphalt road (Final 5 car lengths)		B236199	Tan/Gray	Soil	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-0467

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
B-23(NE)(0-3.3)		B236200	Gray	Soil	None Detected
B-23(NE)(3.3-6.6)		B236201	Brown	Soil	None Detected
B-23(NE)(6.6-10)		B236202	Brown	Soil	None Detected
B-23(SE)(0-3.3)		B236203	Gray	Soil	None Detected
B-23(SE)(3.3-6.6)		B236204	Brown/Gray	Soil	None Detected
B-23(SE)(6.6-10)		B236205	Brown/Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0467
Date Received: 04-17-17
Date Analyzed: 04-17-17
Date Reported: 04-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
B-26(NE)(0 -3.3) B236171	Soil	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
Lab Notes: Samples B236171-B236182 analyzed by Samantha Card.							
B-26(NE)(3.3 -6.6) B236172	Soil	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-26(NW)(0 -3.3) B236173	Soil	Heterogeneous Brown Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-26(NW)(3.3 -6.6) B236174	Soil	Heterogeneous Brown Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-26(SE)(0 -3.3) B236175	Soil	Heterogeneous Gray,Brown Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-26(SE)(3.3 -6.6) B236176	Soil	Heterogeneous Brown Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-26(SW)(0 -3.3) B236177	Soil	Heterogeneous Brown,Gray Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0467
Date Received: 04-17-17
Date Analyzed: 04-17-17
Date Reported: 04-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
B-26(SW)(3.3-6.6) B236178	Soil	Heterogeneous Brown Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-27(NE)(0-3.3) B236179	Soil	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-27(NE)(3.3-6.6) B236180	Soil	Heterogeneous Purple/Brown, Tan Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-27(NW)(0-3.3) B236181	Soil	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-27(NW)(3.3-6.6) B236182	Soil	Heterogeneous Brown Non-fibrous Bound	<1%	Cellulose	100%	Soil	None Detected
B-27(SE)(0-3.3) B236183	Soil	Heterogeneous Brown,Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Lab Notes: Samples B236183-194 analyzed by Megan Rumble.							
B-27(SE)(3.3-6.6) B236184	Soil	Heterogeneous 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

CEI Lab Code: B17-0467
Date Received: 04-17-17
Date Analyzed: 04-17-17
Date Reported: 04-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
B-27(SW)(0 -3.3) B236185	Soil	Heterogeneous Brown,Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
B-27(SW)(3.3 -6.6) B236186	Soil	Heterogeneous Tan Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-25(NE)(0 -3.3) B236187	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-25(NE)(3.3 -6.6) B236188	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-25(SE)(0 -3.3) B236189	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-25(SE)(3.3 -6.6) B236190	Soil	Heterogeneous Purple/Brown, Off-white Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-24(NE)(0 -3.3) B236191	Soil	Heterogeneous 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

CEI Lab Code: B17-0467
Date Received: 04-17-17
Date Analyzed: 04-17-17
Date Reported: 04-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
C-24(NE)(3.3-6.6) B236192	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-24(NW)(0-3.3) B236193	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-24(NW)(3.3-6.6) B236194	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
C-24(SE)(0-3.3) B236195	Soil	Heterogeneous Black Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Lab Notes: Samples B236195-B236205 analyzed by Shilpa Ladekar.							
C-24(SE)(3.3-6.6) B236196	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
C-24(SW)(0-3.3) B236197	Soil	Heterogeneous Black Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
C-24(SW)(3.3-6.6) B236198	Soil	Heterogeneous Gray Fibrous Bound	2%	Cellulose	98%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0467
Date Received: 04-17-17
Date Analyzed: 04-17-17
Date Reported: 04-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Sand & Gravel from beneath Asphalt road (Final 5 car lengths) B236199	Soil	Heterogeneous Tan/Gray Fibrous Bound	2%	Cellulose	83% 15%	Soil Gravel	None Detected
B-23(NE)(0 -3.3) B236200	Soil	Heterogeneous Gray Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
B-23(NE)(3.3 -6.6) B236201	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
B-23(NE)(6.6 -10) B236202	Soil	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
B-23(SE)(0 -3.3) B236203	Soil	Heterogeneous Gray Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
B-23(SE)(3.3 -6.6) B236204	Soil	Heterogeneous Brown/Gray Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
B-23(SE)(6.6 -10) B236205	Soil	Heterogeneous Brown/Gray Fibrous Bound	2%	Cellulose	98%	Soil	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Samantha Card

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

Megan Rumble

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY: (35)
CEI Lab Code: B17-04167
CEI Lab I.D. Range: B236171 - B236205

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☐ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	4/14/17 @ 15:00	DC	4-17-17 9:10

Samples will be disposed of 30 days after analysis

Samples collected on 4/13 & 4/14

B17-0467

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
B-26 (NE) (0-3.3)	Convention Center	~75 cy	PLM ✓	TEM ☐
B-26 (NE) (3.3-6.6)			PLM ✓	TEM ☐
B-26 (NW) (0-3.3)			PLM ✓	TEM ☐
B-26 (NW) (3.3-6.6)			PLM ✓	TEM ☐
B-26 (SE) (0-3.3)			PLM ✓	TEM ☐
B-26 (SE) (3.3-6.6)			PLM ✓	TEM ☐
B-26 (SW) (0-3.3)			PLM ✓	TEM ☐
B-26 (SW) (3.3-6.6)			PLM ✓	TEM ☐
B-27 (NE) (0-3.3)			PLM ✓	TEM ☐
B-27 (NE) (3.3-6.6)			PLM ✓	TEM ☐
B-27 (NW) (0-3.3)			PLM ✓	TEM ☐
B-27 (NW) (3.3-6.6)			PLM ✓	TEM ☐
B-27 (SE) (0-3.3)			PLM ✓	TEM ☐
B-27 (SE) (3.3-6.6)			PLM ✓	TEM ☐
B-27 (SW) (0-3.3)			PLM ✓	TEM ☐
B-27 (SW) (3.3-6.6)			PLM ✓	TEM ☐
C-25 (NE) (0-3.3)			PLM ✓	TEM ☐
C-25 (NE) (3.3-6.6)			PLM ✓	TEM ☐
C-25 (SE) (0-3.3)			PLM ✓	TEM ☐
C-25 (SE) (3.3-6.6)			PLM ✓	TEM ☐
C-24 (NE) (0-3.3)			PLM ✓	TEM ☐
C-24 (NE) (3.3-6.6)			PLM ✓	TEM ☐
C-24 (NW) (0-3.3)			PLM ✓	TEM ☐
C-24 (NW) (3.3-6.6)			PLM ✓	TEM ☐
C-24 (SE) (0-3.3)			PLM ✓	TEM ☐
C-24 (SE) (3.3-6.6)			PLM ✓	TEM ☐
C-24 (SW) (0-3.3)			PLM ✓	TEM ☐
C-24 (SW) (3.3-6.6)			PLM ✓	TEM ☐

B17-0467

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Sand & gravel from beneath Asphalt road (Final 5 car lengths)		30 CY	PLM ✓	TEM ☐
B-23 (NE) (0-3.3)'	Convention center	75 CY	PLM ✓	TEM ☐
B-23 (NE) (3.3-6.6)'	↓	↓	PLM ✓	TEM ☐
B-23 (NE) (6.6-10)'			PLM ✓	TEM ☐
B-23 (SE) (0-3.3)'			PLM ✓	TEM ☐
B-23 (SE) (3.3-6.6)'			PLM ✓	TEM ☐
B-23 (SE) (6.6-10)'			PLM ✓	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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April 27, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-0680

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 27, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-0680

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 04/27/17

TOTAL SAMPLES ANALYZED: 14

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-0680

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Shoreline Stockpile #5A -1		B238994	Gray	Soil	None Detected
Shoreline Stockpile #5A -2		B238995	Gray	Soil	None Detected
Shoreline Stockpile #5B -1		B238996	Black	Soil	None Detected
Shoreline Stockpile #5B -2		B238997	Black	Soil	None Detected
Shoreline Stockpile #5B -3		B238998	Black	Soil	None Detected
Shoreline Stockpile #5C -1		B238999	Gray,Black	Soil	None Detected
Shoreline Stockpile #5C -2		B239000	Gray,Black	Soil	None Detected
Shoreline Stockpile #5C -3		B239001	Gray,Black	Soil	None Detected
Shoreline Stockpile #5D -1		B239002	Black	Soil	None Detected
Shoreline Stockpile #5D -2		B239003	Black,Gray	Soil	None Detected
Shoreline Stockpile #5D -3		B239004	Black,Gray	Soil	None Detected
Shoreline Stockpile #5E -1		B239005	Black,Gray	Soil	None Detected
Shoreline Stockpile #5E -2		B239006	Gray	Soil	None Detected
Shoreline Stockpile #5E -3		B239007	Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0680
Date Received: 04-27-17
Date Analyzed: 04-27-17
Date Reported: 04-27-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile #5A-1 B238994	Soil	Homogeneous Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5A-2 B238995	Soil	Homogeneous Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5B-1 B238996	Soil	Homogeneous Black Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5B-2 B238997	Soil	Homogeneous Black Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5B-3 B238998	Soil	Homogeneous Black Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5C-1 B238999	Soil	Homogeneous Gray,Black Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5C-2 B239000	Soil	Homogeneous Gray,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

CEI Lab Code: B17-0680
Date Received: 04-27-17
Date Analyzed: 04-27-17
Date Reported: 04-27-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile #5C-3 B239001	Soil	Homogeneous Gray,Black Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5D-1 B239002	Soil	Homogeneous Black Non-fibrous Loose			100%	Soil	None Detected
Shoreline Stockpile #5D-2 B239003	Soil	Homogeneous Black,Gray Non-fibrous Loose			100%	Soil	None Detected
Shoreline Stockpile #5D-3 B239004	Soil	Homogeneous Black,Gray Non-fibrous Loose			100%	Soil	None Detected
Shoreline Stockpile #5E-1 B239005	Soil	Homogeneous Black,Gray Non-fibrous Loose			100%	Soil	None Detected
Shoreline Stockpile #5E-2 B239006	Soil	Homogeneous Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #5E-3 B239007	Soil	Homogeneous Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

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

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.

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ANALYST: Taylor B. Metcalf

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY: (14)
CEI Lab Code: B17-0680
CEI Lab I.D. Range: B238994-239007

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	4/26/17 @ 16:00 hrs.	A	427 17 9:30

Samples will be disposed of 30 days after analysis

Page __1__ of ____

B17-0680

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Shoreline Stockpile #5A-1	Shoreline Stockpile #5	90 cy	PLM X	TEM ☐
Shoreline Stockpile #5A-2			PLM X	TEM ☐
Shoreline Stockpile #5B-1			PLM X	TEM ☐
Shoreline Stockpile #5B-2			PLM X	TEM ☐
Shoreline Stockpile #5B-3			PLM X	TEM ☐
Shoreline Stockpile #5C-1			PLM X	TEM ☐
Shoreline Stockpile #5C-2			PLM X	TEM ☐
Shoreline Stockpile #5C-3			PLM X	TEM ☐
Shoreline Stockpile #5D-1			PLM X	TEM ☐
Shoreline Stockpile #5D-2			PLM X	TEM ☐
Shoreline Stockpile #5D-3			PLM X	TEM ☐
Shoreline Stockpile #5E-1			PLM X	TEM ☐
Shoreline Stockpile #5E-2			PLM X	TEM ☐
Shoreline Stockpile #5E-3			PLM X	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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April 27, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-0681

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 27, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-0681

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 04/27/17

TOTAL SAMPLES ANALYZED: 20

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-0681

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
#7A-1		B239008	Brown	Soil	None Detected
#7A-2		B239009	Brown	Soil	None Detected
#7A-3		B239010	Brown	Soil	None Detected
#7B-1		B239011	Brown	Soil	None Detected
#7B-2		B239012	Brown	Soil	None Detected
#7B-3		B239013	Brown	Soil	None Detected
#7C-1		B239014	Brown	Soil	None Detected
#7C-2		B239015	Brown	Soil	None Detected
#7C-3		B239016	Brown	Soil	None Detected
#7D-1		B239017	Brown	Soil	None Detected
#7D-2		B239018	Brown	Soil	None Detected
#7D-3		B239019	Brown	Soil	None Detected
#7E-1		B239020	Brown	Soil	None Detected
#7E-2		B239021	Brown	Soil	None Detected
#7E-3		B239022	Brown	Soil	None Detected
#7F-1		B239023	Brown	Soil	None Detected
#7F-2		B239024	Brown	Soil	None Detected
#7F-3		B239025	Brown	Soil	None Detected
#7G-1		B239026	Brown	Soil	None Detected
#7G-2		B239027	Brown	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0681
Date Received: 04-27-17
Date Analyzed: 04-27-17
Date Reported: 04-27-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	 Non-Fibrous	ASBESTOS %
#7A-1 B239008	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7A-2 B239009	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7A-3 B239010	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7B-1 B239011	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7B-2 B239012	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7B-3 B239013	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7C-1 B239014	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0681
Date Received: 04-27-17
Date Analyzed: 04-27-17
Date Reported: 04-27-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
#7C-2 B239015	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7C-3 B239016	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7D-1 B239017	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7D-2 B239018	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7D-3 B239019	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7E-1 B239020	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7E-2 B239021	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0681
Date Received: 04-27-17
Date Analyzed: 04-27-17
Date Reported: 04-27-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	 Non-Fibrous	ASBESTOS %
#7E-3 B239022	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7F-1 B239023	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7F-2 B239024	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7F-3 B239025	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7G-1 B239026	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
#7G-2 B239027	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Sarah Talley
Sarah Talley

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

Mikaela Batta
Mikaela Batta

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY: (20)
CEI Lab Code: B17-1681
CEI Lab I.D. Range: B239008 - 239027

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	4/26/17 @ 16:00	A	427 17 9:30

Samples will be disposed of 30 days after analysis

Page 1 of ___

B17-0681

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Shoreline Stockpile #7A-1	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7A-2	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7A-3	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7B-1	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7B-2	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7B-3	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7C-1	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7C-2	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7C-3	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7D-1	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7D-2	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7D-3	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7E-1	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7E-2	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7E-3	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7F-1	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7F-2	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7F-3	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7G-1	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
Shoreline Stockpile #7G-2	Shoreline Stockpile #7	90 CY	PLM x	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐

May 1, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-0700

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 1, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-0700

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/17

TOTAL SAMPLES ANALYZED: 18

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-0700

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Shoreline Stockpile #6A		B239241	Gray,Brown	Shoreline Stockpile #6 Soil	None Detected
Shoreline Stockpile #6B		B239242	Gray,Brown	Shoreline Stockpile #6 Soil	None Detected
Shoreline Stockpile #6C		B239243	Gray,Brown	Shoreline Stockpile #6 Soil	None Detected
Shoreline Stockpile #6D		B239244	Gray,Brown	Shoreline Stockpile #6 Soil	None Detected
Shoreline Stockpile #6E		B239245	Gray,Brown	Shoreline Stockpile #6 Soil	None Detected
Waterfront S-1		B239246	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-2		B239247	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-3		B239248	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-4		B239249	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-5		B239250	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-6		B239251	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-7		B239252	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-8		B239253	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-9		B239254	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-10		B239255	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-11		B239256	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-12		B239257	Gray,Brown	Waterfront Shoreline Area	None Detected
Waterfront S-13		B239258	Gray,Brown	Waterfront Shoreline Area	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0700
Date Received: 05-01-17
Date Analyzed: 05-01-17
Date Reported: 05-01-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile #6A B239241	Shoreline Stockpile #6 Soil	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5% <1%	Cellulose Synthetic Fiber	95%	SOIL	None Detected
Shoreline Stockpile #6B B239242	Shoreline Stockpile #6 Soil	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Shoreline Stockpile #6C B239243	Shoreline Stockpile #6 Soil	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Shoreline Stockpile #6D B239244	Shoreline Stockpile #6 Soil	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Shoreline Stockpile #6E B239245	Shoreline Stockpile #6 Soil	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -1 B239246	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -2 B239247	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0700
Date Received: 05-01-17
Date Analyzed: 05-01-17
Date Reported: 05-01-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Waterfront S -3 B239248	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -4 B239249	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -5 B239250	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -6 B239251	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5% <1%	Cellulose Synthetic Fiber	95%	SOIL	None Detected
Waterfront S -7 B239252	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -8 B239253	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -9 B239254	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5% <1%	Cellulose Synthetic Fiber	95%	SOIL	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0700
Date Received: 05-01-17
Date Analyzed: 05-01-17
Date Reported: 05-01-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Waterfront S -10 B239255	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -11 B239256	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -12 B239257	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected
Waterfront S -13 B239258	Waterfront Shoreline Area	Heterogeneous Gray,Brown Non-fibrous Loosely Bound	5%	Cellulose	95%	SOIL	None Detected

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

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.

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ANALYST: Megan Fisher

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	18
CEI Lab Code:	B17-0700
CEI Lab I.D. Range:	B239241-239258

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/28/17 @ 15:00	DC	5-1-17 9:00

Samples will be disposed of 30 days after analysis

B17-0700

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Shoreline Stockpile #6A	Shoreline Stockpile #6	100 CY	PLM X	TEM ☐
Shoreline Stockpile #6B		100 CY	PLM X	TEM ☐
Shoreline Stockpile #6C		100 CY	PLM X	TEM ☐
Shoreline Stockpile #6D		100 CY	PLM X	TEM ☐
Shoreline Stockpile #6E		100 CY	PLM X	TEM ☐
Waterfront S-1	Waterfront Shoreline Area	100 CY	PLM X	TEM ☐
Waterfront S-2		100 CY	PLM X	TEM ☐
Waterfront S-3		100 CY	PLM X	TEM ☐
Waterfront S-4		100 CY	PLM X	TEM ☐
Waterfront S-5		100 CY	PLM X	TEM ☐
Waterfront S-6		100 CY	PLM X	TEM ☐
Waterfront S-7		100 CY	PLM X	TEM ☐
Waterfront S-8		100 CY	PLM X	TEM ☐
Waterfront S-9		100 CY	PLM X	TEM ☐
Waterfront S-10		100 CY	PLM X	TEM ☐
Waterfront S-11		100 CY	PLM X	TEM ☐
Waterfront S-12		100 CY	PLM X	TEM ☐
RE S-13			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐

May 17, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-0879

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 17, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-0879

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/17/17

TOTAL SAMPLES ANALYZED: 15

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-0879

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DL_1 (0-2.5)		B240052	Black	Soil	None Detected
DL_1 (2.5-5)		B240053	Black	Soil	None Detected
DL_1 (5-7.5)		B240054	Red	Soil	None Detected
DL_1 (7.5-10)		B240055	Black	Soil	None Detected
DL_2 (0-2.5)		B240056	Black	Soil	None Detected
DL_2 (2.5-5)		B240057	Black	Soil	None Detected
DL_2 (5-7.5)		B240058	Gray	Soil	None Detected
DL_2 (7.5-10)		B240059	Black	Soil	None Detected
DL_3 (0-2.5)		B240060	Black	Soil	None Detected
DL_3 (2.5-5)		B240061	Black	Soil	None Detected
DL_3 (5-6.5)		B240062	Black	Soil	None Detected
DL_4 (0-2.5)		B240063	Black	Soil	None Detected
DL_4 (2.5-5)		B240064	Black	Soil	None Detected
DL_4 (5-7.5)		B240065	Black	Soil	None Detected
DL_4 (7.5-10)		B240066	Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0879
Date Received: 05-17-17
Date Analyzed: 05-17-17
Date Reported: 05-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DL_1 (0-2.5) B240052	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_1 (2.5-5) B240053	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_1 (5-7.5) B240054	Soil	Heterogeneous Red Fibrous Loose	100%	Soil	None Detected
DL_1 (7.5-10) B240055	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_2 (0-2.5) B240056	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_2 (2.5-5) B240057	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_2 (5-7.5) B240058	Soil	Heterogeneous Gray Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0879
Date Received: 05-17-17
Date Analyzed: 05-17-17
Date Reported: 05-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DL_2 (7.5-10) B240059	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_3 (0-2.5) B240060	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_3 (2.5-5) B240061	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_3 (5-6.5) B240062	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_4 (0-2.5) B240063	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_4 (2.5-5) B240064	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected
DL_4 (5-7.5) B240065	Soil	Heterogeneous Black Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0879
Date Received: 05-17-17
Date Analyzed: 05-17-17
Date Reported: 05-17-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DL_4 (7.5-10) B240066	Soil	Heterogeneous Gray Fibrous Loose		100% Soil	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Sarah Talley
Sarah Talley

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	(15)
CEI Lab Code:	B17-0879 16
CEI Lab I.D. Range:	B240052-240060

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dion	5/16/17 @	AA	5/17/17 9:10

Samples will be disposed of 30 days after analysis

B17-0879

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
DL-1 (0-2.5)			PLM	TEM ☐
DL-1 (2.5-5)			PLM	TEM ☐
DL-1 (5-7.5)			PLM	TEM ☐
DL-1 (7.5-10)			PLM	TEM ☐
DL-2 (0-2.5)			PLM	TEM ☐
DL-2 (2.5-5)			PLM	TEM ☐
DL-2 (5-7.5)			PLM	TEM ☐
DL-2 (7.5-10)			PLM	TEM ☐
DL-3 (0-2.5)			PLM	TEM ☐
DL-3 (2.5-5)			PLM	TEM ☐
DL-3 (5-6.5)			PLM	TEM ☐
DL-4 (0-2.5)			PLM	TEM ☐
DL-4 (2.5-5)			PLM	TEM ☐
DL-4 (5-7.5)			PLM	TEM ☐
DL-4 (7.5-10)			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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May 18, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-0896

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 18, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-0896

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/18/17

TOTAL SAMPLES ANALYZED: 7

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-0896

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Shoreline Stockpile #8A		B240329	Brown	Soil	None Detected
Shoreline Stockpile #8B		B240330	Brown	Soil	None Detected
Shoreline Stockpile #8C		B240331	Brown	Soil	None Detected
Shoreline Stockpile #8D		B240332	Brown	Soil	None Detected
Shoreline Stockpile #8E		B240333	Brown	Soil	None Detected
Shoreline Stockpile #8F		B240334	Brown	Soil	None Detected
Shoreline Stockpile #8G		B240335	Brown	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-0896
Date Received: 05-18-17
Date Analyzed: 05-18-17
Date Reported: 05-18-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Shoreline Stockpile #8A B240329	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #8B B240330	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #8C B240331	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #8D B240332	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #8E B240333	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #8F B240334	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Shoreline Stockpile #8G B240335	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

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

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.

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ANALYST: Greg Ruff

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY: (1)
CEI Lab Code: B17-0896
CEI Lab I.D. Range: B240329-240335

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	5/15/17 @ 15:00 hrs.	AA	5/8/17 9:20

Samples will be disposed of 30 days after analysis

B17-0816

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Shoreline Stockpile #8A	Shoreline Stockpile #8	75 cy	PLM X	TEM ☐
Shoreline Stockpile #8B	↓	↓	PLM X	TEM ☐
Shoreline Stockpile #8C			PLM X	TEM ☐
Shoreline Stockpile #8D			PLM X	TEM ☐
Shoreline Stockpile #8E			PLM X	TEM ☐
Shoreline Stockpile #8F			PLM X	TEM ☐
Shoreline Stockpile #8G			PLM X	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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June 5, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-1116

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 5, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-1116

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 06/05/17

TOTAL SAMPLES ANALYZED: 1

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1116

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Fuel Tank_NW Surface Sample		B242039	Brown	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1116
Date Received: 06-05-17
Date Analyzed: 06-05-17
Date Reported: 06-05-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Fuel Tank_NW Surface Sample B242039	Soil	Heterogeneous Brown Fibrous Bound	5%	Cellulose	95%	Soil	None Detected

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

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.

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ANALYST: Samantha Card

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

CEI LABS
730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY: (1)
CEI Lab Code: B17-1116
CEI Lab I.D. Range: B242039

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dee	6-1-2002/1640	FEDEX	
		AA	6 5 17 9:00

Samples will be disposed of 30 days after analysis

B17-1116

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Fuel Tank_NW surface sample			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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June 7, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-1144

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 7, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-1144

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 06/07/17

TOTAL SAMPLES ANALYZED: 5

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1144

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Utility Spoils Stockpile-A		B242206	Black	Soil	None Detected
Utility Spoils Stockpile-B		B242207	Black	Soil	None Detected
Utility Spoils Stockpile-C		B242208	Black	Soil	None Detected
Utility Spoils Stockpile-D		B242209	Black	Soil	None Detected
Utility Spoils Stockpile-E		B242210	Black	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1144
Date Received: 06-07-17
Date Analyzed: 06-07-17
Date Reported: 06-07-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Utility Spoils Stockpile-A B242206	Soil	Heterogeneous Black Fibrous Bound	<1%	Cellulose	100%	Silicates	None Detected
Utility Spoils Stockpile-B B242207	Soil	Heterogeneous Black Fibrous Bound	<1%	Cellulose	100%	Silicates	None Detected
Utility Spoils Stockpile-C B242208	Soil	Heterogeneous Black Fibrous Bound	<1%	Cellulose	100%	Silicates	None Detected
Utility Spoils Stockpile-D B242209	Soil	Heterogeneous Black Fibrous Bound	<1%	Cellulose	100%	Silicates	None Detected
Utility Spoils Stockpile-E B242210	Soil	Heterogeneous Black Fibrous Bound	<1%	Cellulose	100%	Silicates	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Saithya Painkal

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	(5)
CEI Lab Code:	B17-1144
CEI Lab I.D. Range:	B242206-242210

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com and daniel.scalon@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dias	6-6-17 @	FEDEX	
		A	6/7/17 9:06

Samples will be disposed of 30 days after analysis

B17-1144

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Utility Spoils Stockpile - A			PLM	TEM ☐
Utility Spoils Stockpile - B			PLM	TEM ☐
Utility Spoils Stockpile - C			PLM	TEM ☐
Utility Spoils Stockpile - D			PLM	TEM ☐
Utility Spoils Stockpile - E			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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			PLM	TEM ☐
			PLM	TEM ☐

June 23, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-1327

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 23, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-1327

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 06/23/17

TOTAL SAMPLES ANALYZED: 25

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1327

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Marine 9A-1		B243506	Black,Gray	Soil	None Detected
Marine 9A-2		B243507	Black,Gray	Soil	None Detected
Marine 9A-3		B243508	Black,Gray	Soil	None Detected
Marine 9B-1		B243509	Black,Gray	Soil	None Detected
Marine 9B-2		B243510	Black,Tan	Soil	None Detected
Marine 9B-3		B243511	Black	Soil	None Detected
Marine 9C-1		B243512	Black	Soil	None Detected
Marine 9C-2		B243513	Black,Gray	Soil	None Detected
Marine 9C-3		B243514	Black,Gray	Soil	None Detected
Marine 9D-1		B243515	Black,Tan	Soil	None Detected
Marine 9D-2		B243516	Black,Tan	Soil	None Detected
Marine 9D-3		B243517	Black	Soil	None Detected
Marine 9E-1		B243518	Black,Red	Soil	None Detected
Marine 9E-2		B243519	Black,Red	Soil	None Detected
Marine 9E-3		B243520	Black	Soil	None Detected
Marine 9F-1		B243521	Black,Gray	Soil	None Detected
Marine 9F-2		B243522	Black	Soil	None Detected
Marine 9F-3		B243523	Black,Gray	Soil	None Detected
Marine 9G-1		B243524	Black,Brown	Soil	None Detected
Marine 9G-2		B243525	Black,Brown	Soil	None Detected
Marine 9G-3		B243526	Black,Brown	Soil	None Detected
Marine 9H-1		B243527	Black,Gray	Soil	None Detected
Marine 9H-2		B243528	Black	Soil	None Detected
Marine 9H-3		B243529	Black	Soil	None Detected
Marine 9H-4		B243530	Black	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1327
Date Received: 06-23-17
Date Analyzed: 06-23-17
Date Reported: 06-23-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 9A-1 B243506	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9A-2 B243507	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9A-3 B243508	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9B-1 B243509	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9B-2 B243510	Soil	Heterogeneous Black,Tan Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9B-3 B243511	Soil	Heterogeneous Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9C-1 B243512	Soil	Heterogeneous Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1327
Date Received: 06-23-17
Date Analyzed: 06-23-17
Date Reported: 06-23-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 9C-2 B243513	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9C-3 B243514	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 9D-1 B243515	Soil	Heterogeneous Black,Tan Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9D-2 B243516	Soil	Heterogeneous Black,Tan Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9D-3 B243517	Soil	Heterogeneous Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9E-1 B243518	Soil	Heterogeneous Black,Red Fibrous Loosely Bound	<1%	Cellulose	90% 10%	Soil Non-Fibrous Debris	None Detected
Marine 9E-2 B243519	Soil	Heterogeneous Black,Red Fibrous Loosely Bound	5%	Cellulose	90% 5%	Soil Non-Fibrous Debris	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1327
Date Received: 06-23-17
Date Analyzed: 06-23-17
Date Reported: 06-23-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 9E-3 B243520	Soil	Heterogeneous Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 9F-1 B243521	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9F-2 B243522	Soil	Heterogeneous Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9F-3 B243523	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9G-1 B243524	Soil	Heterogeneous Black,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9G-2 B243525	Soil	Heterogeneous Black,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9G-3 B243526	Soil	Heterogeneous Black,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1327
Date Received: 06-23-17
Date Analyzed: 06-23-17
Date Reported: 06-23-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 9H-1 B243527	Soil	Heterogeneous Black,Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9H-2 B243528	Soil	Heterogeneous Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9H-3 B243529	Soil	Heterogeneous Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 9H-4 B243530	Soil	Heterogeneous Black Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

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

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Anna Malmberg

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY: (25)
CEI Lab Code: B17-1327
CEI Lab I.D. Range: B243506-243530

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	6/22/17 @ 12:30	DC	6-23 9:10

Samples will be disposed of 30 days after analysis

B17-1327

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Marine 9A-1	Marine Stockpile #9	100 cy	PLM X	TEM ☐
Marine 9A-2			PLM	TEM ☐
Marine 9A-3			PLM	TEM ☐
Marine 9B-1			PLM	TEM ☐
Marine 9B-2			PLM	TEM ☐
Marine 9B-3			PLM	TEM ☐
Marine 9C-1			PLM	TEM ☐
Marine 9C-2			PLM	TEM ☐
Marine 9C-3			PLM	TEM ☐
Marine 9D-1			PLM	TEM ☐
Marine 9D-2			PLM	TEM ☐
Marine 9D-3			PLM	TEM ☐
Marine 9E-1			PLM	TEM ☐
Marine 9E-2			PLM	TEM ☐
Marine 9E-3			PLM	TEM ☐
Marine 9F-1			PLM	TEM ☐
Marine 9F-2			PLM	TEM ☐
Marine 9F-3			PLM	TEM ☐
Marine 9G-1			PLM	TEM ☐
Marine 9G-2			PLM	TEM ☐
Marine 9G-3			PLM	TEM ☐
Marine 9H-1			PLM	TEM ☐
Marine 9H-2			PLM	TEM ☐
Marine 9H-3			PLM	TEM ☐
Marine 9H-4			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐

July 5, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-1419

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on July 5, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-1419

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 07/05/17

TOTAL SAMPLES ANALYZED: 24

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1419

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Marine 10 A1		B243982	Gray,Black	Soil	None Detected
Marine 10 A2		B243983	Gray,Black	Soil	None Detected
Marine 10 A3		B243984	Gray,Black	Soil	None Detected
Marine 10 B1		B243985	Black,Brown	Soil	None Detected
Marine 10 B2		B243986	Gray	Soil	None Detected
Marine 10 B3		B243987	Gray	Soil	None Detected
Marine 10 C1		B243988	Gray	Soil	None Detected
Marine 10 C2		B243989	Gray	Soil	None Detected
Marine 10 C3		B243990	Gray	Soil	None Detected
Marine 10 D1		B243991	Gray,Black	Soil	None Detected
Marine 10 D2		B243992	Gray	Soil	None Detected
Marine 10 D3		B243993	Gray	Soil	None Detected
Marine 10 E1		B243994	Gray,Black	Soil	None Detected
Marine 10 E2		B243995	Gray,Black	Soil	None Detected
Marine 10 E3		B243996	Gray	Soil	None Detected
Marine 10 F1		B243997	Gray,Black	Soil	None Detected
Marine 10 F2		B243998	Gray,Black	Soil	None Detected
Marine 10 F3		B243999	Gray,Black	Soil	None Detected
Marine 10 G1		B244000	Gray,Brown	Soil	None Detected
Marine 10 G2		B244001	Gray	Soil	None Detected
Marine 10 G3		B244002	Gray,Brown	Soil	None Detected
Marine 10 H1		B244003	Gray	Soil	None Detected
Marine 10 H2		B244004	Gray,Brown	Soil	None Detected
Marine 10 H3		B244005	Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1419
Date Received: 07-05-17
Date Analyzed: 07-05-17
Date Reported: 07-05-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 10 A1 B243982	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 A2 B243983	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 A3 B243984	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 B1 B243985	Soil	Heterogeneous Black,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 10 B2 B243986	Soil	Heterogeneous Gray Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 10 B3 B243987	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 C1 B243988	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1419
Date Received: 07-05-17
Date Analyzed: 07-05-17
Date Reported: 07-05-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 10 C2 B243989	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 C3 B243990	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 D1 B243991	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 D2 B243992	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 D3 B243993	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 E1 B243994	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 E2 B243995	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1419
Date Received: 07-05-17
Date Analyzed: 07-05-17
Date Reported: 07-05-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 10 E3 B243996	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 F1 B243997	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 F2 B243998	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 F3 B243999	Soil	Heterogeneous Gray,Black Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 G1 B244000	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 10 G2 B244001	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 G3 B244002	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1419
Date Received: 07-05-17
Date Analyzed: 07-05-17
Date Reported: 07-05-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Marine 10 H1 B244003	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected
Marine 10 H2 B244004	Soil	Heterogeneous Gray,Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
Marine 10 H3 B244005	Soil	Heterogeneous Gray Fibrous Loosely Bound	5%	Cellulose	95%	Soil	None Detected

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

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.

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ANALYST: Taylor B. Metcalf

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	24
CEI Lab Code:	B17-1419
CEI Lab I.D. Range:	B243982 - 244005

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dion	7-3-2017 @	M	7 5 17 9:10

Samples will be disposed of 30 days after analysis

B17-1419

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Marine 10 A1			PLM	TEM ☐
Marine 10 A2			PLM	TEM ☐
Marine 10 A3			PLM	TEM ☐
Marine 10 B1			PLM	TEM ☐
Marine 10 B2			PLM	TEM ☐
Marine 10 B3			PLM	TEM ☐
Marine 10 C1			PLM	TEM ☐
Marine 10 C2			PLM	TEM ☐
Marine 10 C3			PLM	TEM ☐
Marine 10 D1			PLM	TEM ☐
Marine 10 D2			PLM	TEM ☐
Marine 10 D3			PLM	TEM ☐
Marine 10 E1			PLM	TEM ☐
Marine 10 E2			PLM	TEM ☐
Marine 10 E3			PLM	TEM ☐
Marine 10 F1			PLM	TEM ☐
Marine 10 F2			PLM	TEM ☐
Marine 10 F3			PLM	TEM ☐
Marine 10 G1			PLM	TEM ☐
Marine 10 G2			PLM	TEM ☐
Marine 10 G3			PLM	TEM ☐
Marine 10 H1			PLM	TEM ☐
Marine 10 H2			PLM	TEM ☐
Marine 10 H3			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐

July 6, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-1426

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on July 6, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-1426

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 07/06/17

TOTAL SAMPLES ANALYZED: 32

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1426

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DB2_SB1_0-2.5		B244064	Brown	Soil	None Detected
DB2_SB1_2.5-5		B244065	Brown	Soil	None Detected
DB2_SB1_5-7.5		B244066	Brown	Soil	None Detected
DB2_SB1_7.5-10		B244067	Brown	Soil	None Detected
DB2_SB1_10-12.5		B244068	Brown	Soil	None Detected
DB2_SB1_12.5-15		B244069	Brown	Soil	None Detected
DB2_SB1_15-17.5		B244070	Brown	Soil	None Detected
DB2_SB1_17.5-20		B244071	Brown	Soil	None Detected
DB2_SB2_0-2.5		B244072	Brown	Soil	None Detected
DB2_SB2_2.5-5		B244073	Brown	Soil	None Detected
DB2_SB2_5-7.5		B244074	Brown	Soil	None Detected
DB2_SB2_7.5-10		B244075	Brown	Soil	None Detected
DB2_SB2_10-12.5		B244076	Brown	Soil	None Detected
DB2_SB2_12.5-15		B244077	Brown	Soil	None Detected
DB2_SB2_15-17.5		B244078	Brown	Soil	None Detected
DB2_SB2_17.5-20		B244079	Brown	Soil	None Detected
DB2_SB3_0-2.5		B244080	Brown	Soil	None Detected
DB2_SB3_2.5-5		B244081	Brown	Soil	None Detected
DB2_SB3_5-7.5		B244082	Brown	Soil	None Detected
DB2_SB3_7.5-10		B244083	Brown	Soil	None Detected
DB2_SB3_10-12.5		B244084	Brown	Soil	None Detected
DB2_SB3_12.5-15		B244085	Brown	Soil	None Detected
DB2_SB3_15-17.5		B244086	Brown	Soil	None Detected
DB2_SB3_17.5-20		B244087	Brown	Soil	None Detected
DB2_SB4_0-2.5		B244088	Brown	Soil	None Detected
DB2_SB4_2.5-5		B244089	Brown	Soil	None Detected
DB2_SB4_5-7.5		B244090	Brown	Soil	None Detected
DB2_SB4_7.5-10		B244091	Brown	Soil	None Detected
DB2_SB4_10-12.5		B244092	Brown	Soil	None Detected
DB2_SB4_12.5-15		B244093	Brown	Soil	None Detected
DB2_SB4_15-17.5		B244094	Brown	Soil	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1426

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DB2_SB4_17.5-20		B244095	Brown	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1426
Date Received: 07-06-17
Date Analyzed: 07-06-17
Date Reported: 07-06-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	 Non-Fibrous	ASBESTOS %
DB2_SB1_0 -2.5 B244064	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB1_2. 5-5 B244065	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB1_5 -7.5 B244066	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB1_7. 5-10 B244067	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB1_10 -12.5 B244068	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB1_12 .5-15 B244069	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB1_15 -17.5 B244070	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1426
Date Received: 07-06-17
Date Analyzed: 07-06-17
Date Reported: 07-06-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DB2_SB1_17.5-20 B244071	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB2_0-2.5 B244072	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB2_2.5-5 B244073	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB2_5-7.5 B244074	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB2_7.5-10 B244075	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB2_10-12.5 B244076	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB2_12.5-15 B244077	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1426
Date Received: 07-06-17
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Date Reported: 07-06-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DB2_SB2_15-17.5 B244078	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB2_17.5-20 B244079	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB3_0-2.5 B244080	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB3_2.5-5 B244081	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB3_5-7.5 B244082	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB3_7.5-10 B244083	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB3_10-12.5 B244084	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1426
Date Received: 07-06-17
Date Analyzed: 07-06-17
Date Reported: 07-06-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DB2_SB3_12.5-15 B244085	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB3_15-17.5 B244086	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB3_17.5-20 B244087	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB4_0-2.5 B244088	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB4_2.5-5 B244089	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB4_5-7.5 B244090	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB4_7.5-10 B244091	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1426
Date Received: 07-06-17
Date Analyzed: 07-06-17
Date Reported: 07-06-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DB2_SB4_10-12.5 B244092	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB4_12.5-15 B244093	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB4_15-17.5 B244094	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected
DB2_SB4_17.5-20 B244095	Soil	Heterogeneous Brown Fibrous Loose	100%	Soil	None Detected

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.

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ANALYST: Sarah Talley

Sarah Talley

APPROVED BY:

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	32
CEI Lab Code:	B17-1426
CEI Lab I.D. Range:	B244064-244095

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Matthew Dion	7-5-2017 @ 1500	FEDEX AA	7617 9:00

Samples will be disposed of 30 days after analysis

B17-1426

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
DB2_SB1_0-2.5	DB2_SB1		PLM	TEM ☐
DB2_SB1_2.5-5	DB2_SB1		PLM	TEM ☐
DB2_SB1_5-7.5	DB2_SB1		PLM	TEM ☐
DB2_SB1_7.5-10	DB2_SB1		PLM	TEM ☐
DB2_SB1_10-12.5	DB2_SB1		PLM	TEM ☐
DB2_SB1_12.5-15	DB2_SB1		PLM	TEM ☐
DB2_SB1_15-17.5	DB2_SB1		PLM	TEM ☐
DB2_SB1_17.5-20	DB2_SB1		PLM	TEM ☐
DB2_SB2_0-2.5	DB2_SB2		PLM	TEM ☐
DB2_SB2_2.5-5	DB2_SB2		PLM	TEM ☐
DB2_SB2_5-7.5	DB2_SB2		PLM	TEM ☐
DB2_SB2_7.5-10	DB2_SB2		PLM	TEM ☐
DB2_SB2_10-12.5	DB2_SB2		PLM	TEM ☐
DB2_SB2_12.5-15	DB2_SB2		PLM	TEM ☐
DB2_SB2_15-17.5	DB2_SB2		PLM	TEM ☐
DB2_SB2_17.5-20	DB2_SB2		PLM	TEM ☐
DB2_SB3_0-2.5	DB2_SB3		PLM	TEM ☐
DB2_SB3_2.5-5	DB2_SB3		PLM	TEM ☐
DB2_SB3_5-7.5	DB2_SB3		PLM	TEM ☐
DB2_SB3_7.5-10	DB2_SB3		PLM	TEM ☐
DB2_SB3_10-12.5	DB2_SB3		PLM	TEM ☐
DB2_SB3_12.5-15	DB2_SB3		PLM	TEM ☐
DB2_SB3_15-17.5	DB2_SB3		PLM	TEM ☐
DB2_SB3_17.5-20	DB2_SB3		PLM	TEM ☐
DB2_SB4_0-2.5	DB2_SB4		PLM	TEM ☐
DB2_SB4_2.5-5	DB2_SB4		PLM	TEM ☐
DB2_SB4_5-7.5	DB2_SB4		PLM	TEM ☐
DB2_SB4_7.5-10	DB2_SB4		PLM	TEM ☐

B17-1426

CEI LABS

SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Caret\y
Project Name: Wynn Boston Harbor	
Project ID #:	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
DB2_SB4_10-12.5	DB2_SB4		PLM	X	TEM	☐
DB2_SB4_12.5-15	DB2_SB4		PLM	X	TEM	☐
DB2_SB4_15-17.5	DB2_SB4		PLM	X	TEM	☐
DB2_SB4_17.5-20	DB2_SB4		PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
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			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐
			PLM	X	TEM	☐

July 14, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-1505

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on July 14, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-1505

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 07/14/17

TOTAL SAMPLES ANALYZED: 48

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1505

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DB1_SB1 0-2.5		B244583	Brown,Gray	Soil	None Detected
DB1_SB1 2.5-5		B244584	Brown,Gray	Soil	None Detected
DB1_SB1 5-7.5		B244585	Brown,Gray	Soil	None Detected
DB1_SB1 7.5-10		B244586	Brown,Gray	Soil	None Detected
DB1_SB1 10-12.5		B244587	Brown,Gray	Soil	None Detected
DB1_SB1 12.5-15		B244588	Brown,Gray	Soil	None Detected
DB1_SB1 15-17.5		B244589	Brown,Gray	Soil	None Detected
DB1_SB1 17.5-20		B244590	Brown,Gray	Soil	None Detected
DB1_SB2 0-2.5		B244591	Brown,Gray	Soil	None Detected
DB1_SB2 2.5-5		B244592	Brown,Gray	Soil	None Detected
DB1_SB2 5-7.5		B244593	Brown,Gray	Soil	None Detected
DB1_SB2 7.5-10		B244594	Brown,Gray	Soil	None Detected
DB1_SB2 10-12.5		B244595	Brown,Gray	Soil	None Detected
DB1_SB2 12.5-15		B244596	Brown,Gray	Soil	None Detected
DB1_SB2 15-17.5		B244597	Brown,Gray	Soil	None Detected
DB1_SB2 17.5-20		B244598	Brown,Gray	Soil	None Detected
DB1_SB3 0-2.5		B244599	Brown,Gray	Soil	None Detected
DB1_SB3 2.5-5		B244600	Brown,Gray	Soil	None Detected
DB1_SB3 5-7.5		B244601	Brown,Gray	Soil	None Detected
DB1_SB3 7.5-10		B244602	Brown,Gray	Soil	None Detected
DB1_SB3 10-12.5		B244603	Brown,Gray	Soil	None Detected
DB1_SB3 12.5-15		B244604	Brown,Gray	Soil	None Detected
DB1_SB3 15-17.5		B244605	Brown,Gray	Soil	None Detected
DB1_SB3 17.5-20		B244606	Brown,Gray	Soil	None Detected
DB1_SB4 0-2.5		B244607	Brown,Gray	Soil	None Detected
DB1_SB4 2.5-5		B244608	Tan	Soil	None Detected
DB1_SB4 5-7.5		B244609	Brown,Gray	Soil	None Detected
DB1_SB4 7.5-10		B244610	Brown,Gray	Soil	None Detected
DB1_SB4 10-12.5		B244611	Brown,Gray	Soil	None Detected
DB1_SB4 12.5-15		B244612	Brown,Gray	Soil	None Detected
DB1_SB4 15-17.5		B244613	Brown,Gray	Soil	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1505

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DB1_SB4 17.5-20		B244614	Brown,Gray	Soil	None Detected
DB1_SB5 0-2.5		B244615	Brown,Gray	Soil	None Detected
DB1_SB5 2.5-5		B244616	Brown,Gray	Soil	None Detected
DB1_SB5 5-7.5		B244617	Brown,Gray	Soil	None Detected
DB1_SB5 7.5-10		B244618	Brown,Gray	Soil	None Detected
DB1_SB5 10-12.5		B244619	Brown,Gray	Soil	None Detected
DB1_SB5 12.5-15		B244620	Gray	Soil	None Detected
DB1_SB5 15-17.5		B244621	Gray	Soil	None Detected
DB1_SB5 17.5-20		B244622	Gray	Soil	None Detected
UO8 0-3.5		B244623	Gray	Soil	None Detected
UO8 3.5-7		B244624	Gray	Soil	None Detected
UO8 7-10.5		B244625	Gray	Soil	None Detected
UO8 10.5-14		B244626	Gray	Soil	None Detected
UO9 0-3.5		B244627	Brown,Gray	Soil	None Detected
UO9 3.5-7		B244628	Brown,Gray	Soil	None Detected
UO9 7-10.5		B244629	Brown,Gray	Soil	None Detected
UO9 10.5-14		B244630	Brown,Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1505
Date Received: 07-14-17
Date Analyzed: 07-14-17
Date Reported: 07-14-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DB1_SB1 0 -2.5 B244583	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB1 2.5 -5 B244584	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB1 5 -7.5 B244585	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB1 7.5 -10 B244586	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB1 10 -12.5 B244587	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB1 12.5-15 B244588	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB1 15 -17.5 B244589	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1505
Date Received: 07-14-17
Date Analyzed: 07-14-17
Date Reported: 07-14-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DB1_SB1 17.5-20 B244590	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB2 0 -2.5 B244591	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB2 2.5 -5 B244592	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB2 5 -7.5 B244593	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB2 7.5 -10 B244594	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB2 10 -12.5 B244595	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Lab Notes: Samples B244595-B244606 analyzed by SP							
DB1_SB2 12.5-15 B244596	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1505
Date Received: 07-14-17
Date Analyzed: 07-14-17
Date Reported: 07-14-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DB1_SB2 15 -17.5 B244597	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB2 17.5-20 B244598	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB3 0 -2.5 B244599	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB3 2.5-5 B244600	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB3 5 -7.5 B244601	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB3 7.5-10 B244602	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB3 10 -12.5 B244603	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1505
Date Received: 07-14-17
Date Analyzed: 07-14-17
Date Reported: 07-14-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DB1_SB3 12.5-15 B244604	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB3 15 -17.5 B244605	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB3 17.5-20 B244606	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB4 0 -2.5 B244607	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Lab Notes: Samples B244607-B244618 analyzed by Greg Ruff.							
DB1_SB4 2.5 -5 B244608	Soil	Heterogeneous Tan Non-fibrous Loose			100%	Soil	None Detected
DB1_SB4 5 -7.5 B244609	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB4 7.5 -10 B244610	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1505
Date Received: 07-14-17
Date Analyzed: 07-14-17
Date Reported: 07-14-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DB1_SB4 10 -12.5 B244611	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB4 12.5-15 B244612	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB4 15 -17.5 B244613	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB4 17.5-20 B244614	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB5 0 -2.5 B244615	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB5 2.5 -5 B244616	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB5 5 -7.5 B244617	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1505
Date Received: 07-14-17
Date Analyzed: 07-14-17
Date Reported: 07-14-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DB1_SB5 7.5 -10 B244618	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
DB1_SB5 10 -12.5 B244619	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
Lab Notes: Samples B244609-B244630 analyzed by M. Fisher							
DB1_SB5 12.5-15 B244620	Soil	Heterogeneous Gray Fibrous Loose			100%	Soil	None Detected
DB1_SB5 15 -17.5 B244621	Soil	Heterogeneous Gray Fibrous Loose			100%	Soil	None Detected
DB1_SB5 17.5-20 B244622	Soil	Heterogeneous Gray Fibrous Loose			100%	Soil	None Detected
UO8 0-3.5 B244623	Soil	Heterogeneous Gray Fibrous Loose			100%	Soil	None Detected
UO8 3.5-7 B244624	Soil	Heterogeneous Gray Fibrous Loose			100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1505
Date Received: 07-14-17
Date Analyzed: 07-14-17
Date Reported: 07-14-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
UO8 7-10.5 B244625	Soil	Heterogeneous Gray Fibrous Loose			100%	Soil	None Detected
UO8 10.5-14 B244626	Soil	Heterogeneous Gray Fibrous Loose			100%	Soil	None Detected
UO9 0-3.5 B244627	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
UO9 3.5-7 B244628	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
UO9 7-10.5 B244629	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
UO9 10.5-14 B244630	Soil	Heterogeneous Brown,Gray Fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Scott Minyard

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-0442

LAB USE ONLY:	
CEI Lab Code:	B17-1505
CEI Lab I.D. Range:	2244583 - 2244630

(48)

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.	Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com	PO #:
Tel: 603-232-8736 Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7-13-17/ 1640	FEDEX DC	7-14 9:00

Samples will be disposed of 30 days after analysis

B17-1505

ASBESTOS
SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
DB1_SB1 0-2.5			PLM	TEM ☐
DB1_SB1 2.5-5			PLM	TEM ☐
DB1_SB1 5-7.5			PLM	TEM ☐
DB1_SB1 7.5-10			PLM	TEM ☐
DB1_SB1 10-12.5			PLM	TEM ☐
DB1_SB1 12.5-15			PLM	TEM ☐
DB1_SB1 15-17.5			PLM	TEM ☐
DB1_SB1 17.5-20			PLM	TEM ☐
DB1_SB2 0-2.5			PLM	TEM ☐
DB1_SB2 2.5-5			PLM	TEM ☐
DB1_SB2 5-7.5			PLM	TEM ☐
DB1_SB2 7.5-10			PLM	TEM ☐
DB1_SB2 10-12.5			PLM	TEM ☐
DB1_SB2 12.5-15			PLM	TEM ☐
DB1_SB2 15-17.5			PLM	TEM ☐
DB1_SB2 17.5-20			PLM	TEM ☐
DB1_SB3 0-2.5			PLM	TEM ☐
DB1_SB3 2.5-5			PLM	TEM ☐
DB1_SB3 5-7.5			PLM	TEM ☐
DB1_SB3 7.5-10			PLM	TEM ☐
DB1_SB3 10-12.5			PLM	TEM ☐
DB1_SB3 12.5-15			PLM	TEM ☐
DB1_SB3 15-17.5			PLM	TEM ☐
DB1_SB3 17.5-20			PLM	TEM ☐
DB1_SB4 0-2.5			PLM	TEM ☐
DB1_SB4 2.5-5			PLM	TEM ☐
DB1_SB4 5-7.5			PLM	TEM ☐
DB1_SB4 7.5-10			PLM	TEM ☐
DB1_SB4 10-12.5			PLM	TEM ☐
DB1_SB4 12.5-15			PLM	TEM ☐
DB1_SB4 15-17.5			PLM	TEM ☐
DB1_SB4 17.5-20			PLM	TEM ☐
DB1_SB5 0-2.5			PLM	TEM ☐
DB1_SB5 2.5-5			PLM	TEM ☐
DB1_SB5 5-7.5			PLM	TEM ☐
DB1_SB5 7.5-10			PLM	TEM ☐
DB1_SB5 10-12.5			PLM	TEM ☐
DB1_SB5 12.5-15			PLM	TEM ☐

B17-15C

ASBESTOS
SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
DB1_SB5 15-17.5			PLM	TEM ☐
DB1_SB5 17.5-20			PLM	TEM ☐
UO8 0-3.5			PLM	TEM ☐
UO8 3.5-7			PLM	TEM ☐
UO8 7-10.5			PLM	TEM ☐
UO8 10.5-14			PLM	TEM ☐
UO9 0-3.5			PLM	TEM ☐
UO9 3.5-7			PLM	TEM ☐
UO9 7-10.5			PLM	TEM ☐
UO9 10.5-14			PLM	TEM ☐

July 24, 2017

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12
CEI LAB CODE: B17-1613

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on July 24, 2017. 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. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12

CEI LAB CODE: B17-1613

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 07/24/17

TOTAL SAMPLES ANALYZED: 2

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor; 01.017521.52 Task 12 **CEI LAB CODE:** B17-1613

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
Electric Vault 1		B245344	Black,Gray	Soil	None Detected
Electric Vault 2		B245345	Black,Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CEI Lab Code: B17-1613
Date Received: 07-24-17
Date Analyzed: 07-24-17
Date Reported: 07-24-17

Project: Wynn Boston Harbor; 01.017521.52 Task 12

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Electric Vault 1 B245344	Soil	Homogeneous Black,Gray Fibrous Bound	2%	Cellulose	98%	Soil	None Detected
Electric Vault 2 B245345	Soil	Homogeneous Black,Gray Fibrous Bound	2%	Cellulose	98%	Soil	None Detected

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 CEI Labs, Inc. CEI Labs 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.

ANALYST: Megan Fisher

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS
CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY: (2)
CEI Lab Code: B17 - 11613
CEI Lab I.D. Range: B245344 - 245345

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: Neal Carey
Company: GZA GeoEnvironmental, Inc.		Email / Tel: neal.carey@gza.com
Address: 249 Vanderbilt Avenue		Project Name: Wynn Boston Harbor
Norwood, MA 02062		Project ID#: 01.017521.52 Task 12
Email: neal.carey@gza.com and Victoria.Ward@gza.com		PO #:
Tel: 603-232-8736	Fax: 781-278-5752	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	X	☐	☐	☐	☐
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	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Straight PLM Analysis; Refer to Dr. Bai; If present, quantification is required (example: Trace = <1%) **Eamil test results to Neal.Carey@gza.com and Victoria.Ward@gza.com

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
		A	7/24/17 9:00

Samples will be disposed of 30 days after analysis

B17-163

ASBESTOS SAMPLING FORM

CEI LABS

COMPANY CONTACT INFORMATION	
Company: GZA GeoEnvironmental, Inc.	Job Contact: Neal Carey
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.52	Tel: 603-232-8736

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
Electric Vault 1			PLM	TEM ☐
Electric Vault 2			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
			PLM	TEM ☐
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