

RELEASE ABATEMENT MEASURE COMPLETION REPORT

SOIL EXCAVATION AND REMOVAL AT THE ACQUIRED RESIDENTIAL PROPERTIES

NEW BEDFORD, MASSACHUSETTS

Release Tracking Number 4-15685

Prepared for:

City of New Bedford
133 William Street
New Bedford, Massachusetts 02740

Prepared by:

TRC Environmental Corporation
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854
(978) 970-5600

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ACRONYMS

ACEC	Area of Critical Environmental Concern
AUL	Activity and Use Limitation
BOL	Bill of Lading
CGP	Construction General Permit
USEPA	United States Environmental Protection Agency
KMS	Keith Middle School
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
µg/m ³	Micrograms per Cubic Meter
mg/kg	Milligram per kilogram
MSR	Material Shipping Record
NBHS	New Bedford High School
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated biphenyls
PID	Photoionization Detector
PPMV	Parts per million by volume
RAM	Release Abatement Measure
RCRA	Resource Conservation and Recovery Act
RTN	Release Tracking Number
SVOC	Semi-Volatile Organic Compounds
SWPPP	Storm Water Pollution Prevention Plan
TCLP	Toxic Characterization Leaching Procedure
TRC	TRC Environmental Corporation
USGS	United States Geological Survey
VOCs	Volatile Organic Compounds

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) prepared this Release Abatement Measure Completion Report (RAM Completion Report) for submittal to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City) per 310 CMR 40.0446 of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). This RAM Completion Report documents RAM activities conducted at the properties located at 101, 102, and 111 Greenwood Street, and 98, 108, and 118 Ruggles Street (hereinafter “Acquired Residential Properties” and/or “Site”) under a RAM Plan submitted to MassDEP on December 18, 2012 (TRC, 2012b) and RAM Plan Modification submitted on September 3, 2014 (TRC, 2014b).

The Acquired Residential Properties are a portion of the disposal site managed under the MCP and tracked by MassDEP under Release Tracking Number (RTN) 4-15685. The Site is located on the eastern end of Greenwood and Ruggles Streets at or near the intersection of Hathaway Boulevard in New Bedford, Massachusetts. A Site Location Map is provided as Figure 1. Additional information about RAM activities at the Site is provided in the documents listed in Section 3.0.

This RAM Completion Report is organized as follows: Section 1.0 (Introduction) briefly summarizes background information pertaining to RAM-related activities. Section 2.0 (RAM Completion Report) provides the information required for a RAM Completion Report under the MCP, as set forth under 310 CMR 40.0466. Section 3.0 (References) lists information sources relied upon in the preparation of this RAM Completion Report.

1.1 Background

Based on a review of historical aerial photographs, the Site was subject to land disturbance or disposal activities between approximately the 1940s and early 1970s. Historical documentation indicates that the area was an undeveloped wetland prior to land disturbance or disposal activities.

Site investigations have identified the presence of historic fill at the Site variously impacted by polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), heavy metals (including arsenic, barium, cadmium, chromium, lead, mercury, nickel, and zinc), chlorinated dioxins/furans, and/or volatile organic compounds (VOCs). The fill material appears to be attributable to historic disposal activities.

Investigative work completed at the Site by TRC supplemented previous assessment work conducted at the Site by the BETA Group, Incorporated (BETA) between December 2005 and June 2006. The data collected by BETA was submitted in the following BETA reports:

- *Summary of Analytical Data, Volume I of II, Properties Located on: Greenwood Street, Ruggles Street, Durfee Street, New Bedford, Massachusetts*, dated March 15, 2006;
- *Summary of Analytical Data, Volume II of II, Properties Located on: Greenwood Street, Ruggles Street, Durfee Street, New Bedford, Massachusetts*, dated March 15, 2006;

- *Summary of Analytical Data, 98 Ruggles Street, New Bedford, Massachusetts*, dated September 14, 2006; and
- *Summary of Analytical Data, 102 Greenwood Street, New Bedford, Massachusetts*, dated September 14, 2006.

TRC prepared a *Phase II Comprehensive Site Assessment (CSA)* report for the Site which was submitted to MassDEP by the City in January 2012 (TRC, 2012a), and a *Release Abatement Measure Plan* which was submitted in December 2012 (TRC, 2012b).

Following submittal of the RAM Plan, supplementary Site investigation activities consisting of soil boring advancement and soil sampling were initiated in March 2013. Pre-characterization sampling of PCB-impacted soils at 101 and 102 Greenwood Street began in April 2013. The PCB pre-characterization investigation at 101 Greenwood Street was completed in June 2013 and PCB pre-characterization activities at 102 Greenwood Street were completed in October 2013.

In April 2014, the City submitted a Tier Classification to MassDEP for RTN 4-15685. The Tier Classification, which included a summary of compliance history and a Conceptual Phase II Scope of Work, was submitted in accordance with the proposed amendments to the MCP (310 CMR 40.0510)¹. RTN 4-15685 was given a Tier II Classification consistent with the criteria provided in 310 CMR 40.0520(2) of the revised MCP (MassDEP, 2014).

TRC met with the United States Environmental Protection Agency (EPA) Region 1 Regional PCB Coordinator, Kim Tisa, on April 30, 2014 to finalize the PCB Remediation Waste excavation and verification sampling approach for implementation of the Site remedy. A RAM Plan Modification which discussed the approach agreed upon by USEPA Region 1, TRC and the City for the remedy was submitted to MassDEP in September 2014 (TRC, 2014b), and preliminary remedial sampling activities were initiated at the Site in September 2014.

1.2 RAM Scope of Work

The original RAM scope of work is documented in the RAM Plan submitted in December 2012 (TRC, 2012b). Additional activities subsequently included in the RAM are documented in the RAM Plan Modification submitted in September 2014 (TRC, 2014b).

The work performed under the RAM served to remove soil classified as PCB Remediation Waste (as defined in 40 CFR §761.3) from the Site, to reduce current and potential future risks at the Site, and to achieve a Condition of No Significant Risk in accordance with the MCP.

¹ Final amendments were published on April 25, 2014 with an effective date of June 20, 2014. The City received concurrence from MassDEP to submit the Tier Classification consistent with the proposed amendments in advance of the final published and effective dates.

2.0 RELEASE ABATEMENT MEASURE COMPLETION REPORT (310 CMR 40.0446)

This RAM Completion Report is organized according to the information needs set forth under 310 CMR 40.0446(4)(a) through (f) of the MCP.

2.1 Description of Release, Site Conditions and Surrounding Receptors

2.1.1 Description of Release

Based on review of historical United States Geological Survey (USGS) topographic maps from 1941 and 1949, the Site was previously the location of a wetland area. Historical aerial photographs indicate the Site was subject to land disturbance or disposal activities between approximately the 1940s and early 1970s.

The chemical profile of fill materials found at some locations of the Site are similar to those of industrial landfills, indicating that the fill material is associated with dumping from industrial sources. New Bedford High School (NBHS) was constructed between 1970 and 1972. Soils displaced for construction of the building's foundation were reportedly transported across Hathaway Boulevard to what was then vacant land (the present-day location of the Keith Middle School [KMS]). During an environmental investigation of the KMS property as a possible location for a middle school in 2000, concentrations of PCB Aroclors were detected above regulatory reporting criteria, which led to a reporting condition to MassDEP. MassDEP assigned RTN 4-15685.

Following the detection of PCBs at KMS, additional investigations of the surrounding area (NBHS, Walsh Field, the Nemasket Street Lots and the Site) were initiated by BETA on behalf of the City in connection with a conditional approval issued by the EPA (PCB Risk-Based Cleanup and Disposal Approval, McCoy Field [New Keith Middle School], New Bedford, MA, USEPA August 24, 2005).

2.1.2 Site Conditions

The Site is underlain by topsoil and up to approximately 9 feet of anthropogenic fill material which includes sandy material and ash. In places, the ash fill includes, for example, broken glass, porcelain, brick fragments, rubber, clinker, coal, cinders, fabric, plastic, concrete, asphalt, wood and/or metallic fragments, indicative of historical industrial and domestic dumping activities. Anthropogenic fill materials are underlain by native dark brown organic peat material, mixed in places with silt and clay from the wetland that predates the development of the area. Native soils below or in the absence of the organic peat layer are characterized by tan to gray fine to coarse sands with trace gravel and/or silty sand in places.

Observation of Site soils and review of historic topographic maps indicates that surficial geology at the Site consists of glacial outwash sediments. Drumlins flank the Site to the east and west. Based on a review of the USGS Bedrock Geologic Map of Massachusetts (Zen et al., 1983),

bedrock beneath the Site is light gray, pinkish-gray to tan, mafic-poor granite known as Alaskite (map designation Zagr).

The depth to groundwater has been measured from approximately 10 to 14 feet below grade at the Site. Groundwater generally flows from northwest to southeast across the Site.

2.1.3 Surrounding Receptors

Land uses at properties surrounding the Site are primarily residential. The area also includes the following properties and land uses:

- The NBHS campus is located to the east of the Site across Hathaway Boulevard;
- The New Andrea McCoy Field is located to the southeast of the Site;
- Dr. Paul F. Walsh Athletic Complex is located to the southeast of the Site;
- A church is located south of the Site at the intersection of Parker Street and Hathaway Boulevard;
- The Nemasket Street Lots and KMS campus are located to the north of the Site; and
- Residential properties are located south and west of the Site on Greenwood and Ruggles Streets.

Groundwater categories at the Site include actual or potential GW-2 (there are currently no occupied structures at the Site and the depth to groundwater is less than 15 feet below grade) and GW-3, which applies to all groundwater throughout the Commonwealth.

A Massachusetts Office of Geographic Information (MassGIS) MassDEP Priority Resource Map was included in the Phase II CSA report (TRC, 2012a), and the information has been subsequently confirmed on-line (MassGIS, 2015). The Site is not located within a Current or Potential Drinking Water Source Area. The Site is not located in a wetland resource area, and no documented sensitive ecological receptor areas (e.g., Areas of Critical Environmental Concern [ACECs]) are known to be located at or near the Site. No municipal or residential wells are known to be within 500 feet of the Site.

2.2 Description of RAM completed at the Site

RAM activities conducted at the Site included:

- Characterization of PCB Remediation Waste Soil, and non-PCB Remediation Waste Soil, for waste disposal and/or treatment requirements;
- Excavation and temporary on-site storage of targeted PCB Remediation Waste;
- Post-excavation verification sampling;
- On-site stabilization of lead and/or cadmium impacted soils;
- Excavation of non-PCB Remediation Waste soils;

- Temporary on-site stockpiling of non-PCB Remediation Waste;
- Removal or on-site reuse of non-PCB Remediation Waste excavated soils;
- Off-site disposal of excavated PCB Remediation Waste soils and non-PCB Remediation Waste soils;
- Off-site disposal of vegetation cleared from the Site during the RAM; and
- Construction of an exposure barrier.

The layout of the Site following completion of the RAM is illustrated on Figure 2. Photographs of RAM activities are included as Appendix A.

Prior RAM-related activities are described in the following reports submitted to MassDEP by the City:

- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685. April 2013. (TRC, 2013a)*
- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685. October 2013. (TRC, 2013b)*
- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685. March 2014. (TRC, 2014a)*
- *Release Abatement Measure Plan Modification – Soil Excavation and Removal at the Acquired Residential Properties, Parker Street Waste Site, New Bedford, Massachusetts, Release Tracking Number 4-15685. March 2014. (TRC, 2014b)*
- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685. October 2014. (TRC, 2014c)*
- *Release Abatement Measure Status Report – Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685. April 2015. (TRC, 2015)*

2.3 Recently Conducted RAM Activities

Sections 2.3 and 2.4 below describe RAM activities completed during the reporting period and the associated analytical results, respectively. Waste management activities during the reporting period are discussed in Section 2.8.

2.3.1 Tree Root Soil Sampling

Composite soil samples were collected from the surface to approximately 3 feet below grade from points located on the north, south, east and west of the root systems of five trees at the Site

on April 8, 2015. The samples were submitted to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts (Con-Test) for analysis of PCBs, PAHs and RCRA 8 Metals. Sample TREE-3 was also subsequently analyzed for leachable lead by the toxicity characteristic leaching procedure (TCLP) method.

Tree root soil analytical results are discussed in Section 2.4.1.

2.3.2 Soil Exposure Barrier Construction

Following the excavation of non-PCB Remediation Waste soils from 102 Greenwood Street and from the perimeter of the five contiguous properties comprising the remainder of the Site, and the removal of PCB Remediation Waste soils from 101 and 102 Greenwood Street, an exposure barrier was constructed over the Site using clean fill material imported by Medeiros & Sons' Construction, Incorporated of North Dartmouth, Massachusetts (Medeiros & Sons'). The City previously had the source of the backfill material analyzed by a laboratory in September 2013, as indicated in a statement from the supplier attesting to the backfill source (Appendix B).

Prior to construction of the exposure barrier, a black separation fabric was placed on the subgrade surface, and a bright orange warning layer was placed following the addition of the first one foot of clean fill. Additional clean fill was placed above the subgrade and built up and compacted in successive layers not exceeding twelve inches in un-compacted thickness. Approximately six inches of crushed stone (¾-inch and 1 ¼-inch) was used at the surface in preparation for potential reuse of the Site as a dog park. The approximately six inches of crushed stone added above the three-foot thick exposure barrier is not considered part of the exposure barrier, and could be used as the surface of the dog park if the Site is redeveloped as a dog park.

Exposure barrier construction activities were completed at the Site on April 15, 2015. Final grade elevations at the Site following construction of the exposure barrier are shown on Figure 2.

Dust levels were continuously monitored by TRC during RAM activities with the potential to disturb soil, including exposure barrier construction work, and did not exceed the action limit of 150 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) sustained over 15 minutes.

2.3.3 Groundwater Monitoring Well Installation and Replacement

On May 20, 2015, two groundwater monitoring wells at the Site that were damaged during RAM excavation work were replaced with two new monitoring wells. The monitoring wells were installed by New England Geotech of Jamestown, Rhode Island using a track-mounted 7822DT Geoprobe® rig under TRC field supervision. TRC personnel observed the soils removed at each location and field screened soil samples with a photoionization detector (PID) using the MassDEP jar headspace methodology. A summary of the work is as follows:

- **Well Replacement:** Damaged wells MW-34 (118 Ruggles Street) and MW-44 (102 Greenwood Street) were replaced with wells MW-34R and MW-44R. The wells were installed within approximately 3 feet of the original well locations and were constructed consistent with the original wells.

- **Well Installation:** Two new monitoring wells (MW-46 and MW-47) were installed to depths of approximately 20 to 22 feet below grade at the 101 and 102 Greenwood Street properties. Monitoring well MW-46 was installed in the approximate center of the PCB Remediation Waste excavation area at 102 Greenwood Street and MW-47 was installed in the approximate center of the PCB Remediation Waste excavation area 101 Greenwood Street.

The wells were constructed with the well screens across the water table, based on field observations and historical depth to groundwater measurements at the Site (where applicable), and were completed at the surface as flush-mounted installations. The monitoring wells were developed on May 20, 2015 using an electric submersible pump (whale pump) until the water appeared clear; a minimum of three well volumes were purged from each well during development.

Monitoring well locations are shown on Figure 2. Monitoring well construction information and groundwater elevation data are summarized in Table 1, and well construction logs are provided in Appendix C.

2.3.4 Groundwater Sampling

Groundwater sampling events were conducted at the Site on May 27 and 28 and August 31 and September 1, 2015. Groundwater samples were collected from the four recently installed monitoring wells (MW-34R, MW-44R, MW-46 and MW-47) and two existing wells (MW-43 and MW-45).

Groundwater samples were collected using a bladder pump and dedicated Teflon®-lined tubing via the low-flow method. During purging of the monitoring wells, groundwater was monitored for dissolved oxygen, temperature, oxidation/reduction potential, conductivity, pH, turbidity, and depth to water. Groundwater sampling forms are provided in Appendix D.

The groundwater samples were submitted to Con-Test for analysis of VOCs, PAHs, PCBs, and total and dissolved (field-filtered using a 0.45 micron filter) MCP metals. The samples from MW-46 (including the field duplicates) were analyzed for both total and dissolved (filtered using a 0.45 micron filter) PCBs. Groundwater analytical results are discussed in Section 2.4.2.

2.3.5 Tree Removal and Stump Sampling

A tree along the perimeter of 101 Greenwood Street was removed on May 28, 2015. The tree was removed to provide access to the soil around the root system following the identification of lead impacts in the soil sample previously collected from around the roots (Tree-3). The tree/roots and approximately eight cubic yards of soil surrounding the root system to a depth of approximately 3 feet below grade were removed using an excavator. Clean imported fill material was used to backfill the root ball excavation and the adjacent sidewalk was restored. The approximately eight cubic yards of soil removed from around the tree roots, and the tree stump, were subsequently transported off-site for disposal, as discussed in Section 2.8.

A sample of the tree stump was collected and submitted to Con-Test for analysis of VOCs, PCBs, PAHs and RCRA 8 Metals. The sample results are discussed below in Section 2.4.3.

2.4 Recent RAM Sampling Results

2.4.1 Tree Root Soil Sampling Results

The results of the composite soil samples collected from the surface to approximately 3 feet below grade around the root systems of five trees at the Site on April 8, 2015 are summarized in Table 2 and discussed below. Total lead was detected in the sample collected from the soil around the roots of Tree-3 (located at 101 Greenwood Street) at a concentration above the MCP S-1/GW-2/GW-3 standard; the TCLP lead result for this sample was below the regulatory limit listed in 310 CMR 30.125 Table 1. No other analytes were detected above MCP criteria in the soil samples.

Copies of the laboratory reports are included in Appendix E.

2.4.2 Groundwater Sampling Results

Groundwater sampling results for the Site are summarized in Table 3, and results from the reporting period are discussed below. PCBs were detected above the MCP GW-2 and GW-3 standards in the unfiltered samples from well MW-46; however, PCBs were not detected above MCP criteria in the filtered (0.45-micron) samples from this well. No other analytes were detected above MCP criteria in the groundwater samples.

Copies of the laboratory reports are included in Appendix E.

2.4.3 Tree-3 Stump Sample Results

Results of the sample collected from the stump of Tree-3 on May 28, 2015 are summarized in Table 4. No analytes were detected above MCP criteria in the sample.

A copy of the laboratory report is included in Appendix E.

2.5 Investigatory and Monitoring Data

The following section includes a brief summary of investigatory and monitoring data collected during the RAM.

2.5.1 Soil Characterization

Details regarding the RAM soil characterization work completed prior to the current reporting period are included in the RAM Status reports listed in Section 3. A brief summary is provided below.

Following submittal of the original RAM Plan in December 2012, preliminary Site investigation

activities were initiated in March 2013 and soil pre-characterization sampling began in April 2013. The pre-characterization investigation at 101 Greenwood Street was completed in June 2013 and pre-characterization activities at 102 Greenwood Street were completed in October 2013. A total of 171 soil samples were collected and analyzed for PCBs during the pre-characterization investigation at 101 Greenwood Street. Total PCB concentrations greater than 50 mg/kg were detected in a total of 18 samples across 14 boring locations. A total of 219 soil samples were collected and analyzed for PCBs during the pre-characterization investigation at 102 Greenwood Street, with five soil samples also analyzed for VOCs. Total PCB concentrations greater than 50 mg/kg were detected in a total of 64 samples across 29 boring locations. Sample concentrations greater than 50 mg/kg total PCBs ranged from 55 mg/kg to 100,000 mg/kg. TCE was detected above MCP criteria in the five soil samples analyzed for VOCs; however, no other VOCs were detected above regulatory standards.

Details of pre-excavation PCB confirmatory sampling activities and results are included in the RAM Status reports submitted in April 2013 (TRC, 2013a), October 2013 (TRC, 2013b), and March 2014 (TRC, 2014a); the detection of TCE in soil at 102 Greenwood Street is discussed in the October 2013 RAM Status report.

2.5.2 Environmental Monitoring

Environmental monitoring measures were implemented as outlined in the RAM Plan (TRC, 2012b) and RAM Plan Modification (TRC, 2014b).

Dust levels were continuously monitored by TRC during RAM activities with the potential to disturb soil, and did not exceed the action limit of 150 $\mu\text{g}/\text{m}^3$ sustained over 15 minutes. PID screening of VOC levels within the work zone also did not identify any exceedances of the action level (5 parts per million by volume in the breathing zone sustained over 5 minutes).

2.5.3 Stormwater Management

During RAM activities, various areas on the property were disturbed to remove impacted soil and to complete grading. Given that the cumulative area of disturbed soil was greater than one acre, a Storm Water Pollution Prevention Plan (SWPPP) was prepared, and a Notice of Intent (NOI) was submitted to the EPA.

Effective February 16, 2012, the EPA issued a five-year General Permit for Discharges from Construction Activities (construction site storm water). The permit expires February 16, 2017. A SWPPP was prepared to comply with the provisions of the new National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP) for storm water discharges from construction sites.

Erosion and sediment control features, including silt fence, polyethylene sheeting, sediment barriers and straw bale barriers located down-gradient of excavation areas and around catch basins in the vicinity of the work, were installed prior to and maintained throughout construction activities as appropriate. Construction entrance pads were installed to divert sediment runoff away from the public road. In addition, construction of the final Site grades provides for positive

drainage of storm water runoff from new surfaces to the existing subsurface drainage systems, and the crushed stone surface of the Site allows for storm water infiltration.

TRC regularly inspected the disturbed areas of the Site that had not yet been permanently stabilized, areas used for storage of materials that were exposed to precipitation, erosion and sediment control measures, and locations where vehicles entered and/or exited the Site in accordance with the SWPPP. Following inspections, corrective actions were implemented as needed. Completed inspection forms and corrective action logs have been maintained in accordance with the SWPPP.

As of the submittal of this RAM Completion Report, Site stabilization is completed and SWPPP-related monitoring and inspection activities are no longer necessary. A Notice of Termination certifying that the requirements of the permit had been met was submitted to EPA by the City on October 16, 2015, and coverage under the permit was terminated by EPA on October 21, 2015.

2.6 Post-Remediation Sampling

2.6.1 Soil Sampling

Post-excavation soil sampling for PCBs and VOCs was conducted during November 2014 and January 2015; PCB results are summarized in Table 5 and VOC results are summarized in Table 6. Post-excavation sample locations and summarized analytical results are shown on Figure 3 (101 Greenwood Street) and Figure 4 (102 Greenwood Street). Additional details are included in the April 2015 RAM Status report (TRC, 2015).

2.6.2 Groundwater Monitoring

Groundwater monitoring results from the RAM are discussed above in Section 2.4.2 and summarized in Table 3.

2.7 Findings and Conclusions

Although RAM activities have been completed and a Condition of No Significant Risk has been achieved for the top three feet of soil at the Site, an Activity and Use Limitation (AUL) will be required for the property to control certain site uses and activities and to mitigate/control potential exposure to impacted soils greater than three feet below grade. The AUL will be included with the filing of the Permanent Solution Statement (partial) for the ARP portion of RTN 4-15685.

The post-remediation risk characterization and associated AUL documentation will be provided in a separate Permanent Solution report for the Site.

2.8 Details and Documents for the Management of Remediation Waste, Remedial Wastewater, and/or Remedial Additives

The approximately eight cubic yards (approximately 11.16 tons) of soil removed from around the tree roots of the tree removed from 101 Greenwood Street on May 28, 2015 was loaded into a dump truck and transported on that day under Bill of Lading (BOL) to the Environmental Soil Management, Inc. facility in Loudon, New Hampshire (ESMI) for treatment via thermal processing and disposal. A copy of the BOL is provided in Appendix F.

Approximately 0.47 tons of tree stump removed from 101 Greenwood Street on May 28, 2015 was transported under Material Shipping Record (MSR) to the Crapo Hill Landfill in New Bedford, Massachusetts for disposal. A copy of the MSR is included in Appendix F.

No additional remediation waste, remedial wastewater or remedial additives were managed under this RAM during the reporting period. No stockpiled waste is present at the Site.

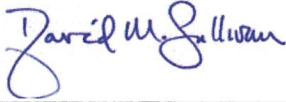
Please refer to the previous RAM Status reports (TRC 2013a, 2013b, 2014a, 2014c, and 2015) for information regarding RAM soil management activities conducted prior to the reporting period, as well as the associated shipping documentation.

2.9 Ongoing Activities

Following the completion of a Method 3 Risk Characterization and submittal of a Permanent Solution Statement including an AUL for the Site, conditions at the Site can be effectively and safely maintained by the City.

2.10 LSP Opinion

The objective of this RAM Completion Report is to appraise MassDEP of the completion of the City's RAM activities at the Site. This RAM Completion Report has been prepared in accordance with 310 CMR 40.0446 as set forth in the MCP.



David M. Sullivan, LSP
TRC Environmental Corporation
Licensed Site Professional No. 1488

10/27/15

Date



Stamp

3.0 REFERENCES

- Burmeister, 1958. *Suggested Methods of Tests for Identification of Soils*. In: Procedures for Testing Soils. American Society for Testing and Materials, Philadelphia, PA, 1958.
- MassGIS, 2015 Massachusetts Geographic Information System (MassGIS), On-line MassDEP Priority Resource Map. Accessed July 15, 2015. <http://maps.massgis.state.ma.us/21e/viewer.htm>
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- MassDEP, 2014 *Massachusetts Contingency Plan; 310 CMR 40.0000*. April 25, 2014.
- TRC, 2012a *Phase II Comprehensive Site Assessment, Acquired Residential Properties, and Nemasket Street Lots Portion of Parker Street Waste Site, New Bedford, Massachusetts*. Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. January 2012.
- TRC, 2012b *Release Abatement Measure Plan, Soil Excavation and Removal at the Acquired Residential Properties, Parker Street Waste Site, New Bedford, Massachusetts*. Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. December 2012.
- TRC, 2013a *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685*. Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. April 2013.
- TRC, 2013b *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685*. Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. October 2013.
- TRC, 2014a *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685*. Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. March 2014.
- TRC, 2014b *Release Abatement Measure Plan Modification, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685*. Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. August 2014 (submitted September 3, 2014).

- TRC, 2014c *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. October 2014.
- TRC, 2015 *Release Abatement Measure Status Report, Soil Excavation and Removal at the Acquired Residential Properties, New Bedford, Massachusetts, Release Tracking Number 4-15685.* Prepared for the City of New Bedford. Prepared by TRC, Lowell, Massachusetts. April 2015.
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TABLES

Table 1
Monitoring Well Construction Information and
Groundwater Elevation Data
Acquired Residential Properties
New Bedford, Massachusetts

Well ID	Date Installed	Location	Total Well Depth (ft bgs)	Screened Interval (ft BGS)	Reference Elevation (ft AMSL) ^{2,3}	Date Measured	Depth to Water (ft BTOR)	Calculated Water Elevation (ft AMSL)
MW-34 ¹	12/8/2010	118 Ruggles St.	20	10 to 20	92.78	1/20/2011	10.5	82.28
						2/27/2012	10.4	82.38
MW-34R	5/20/2015	118 Ruggles St.	20	10 to 20	94.36	5/27/2015	11.24	83.12
						8/31/2015	12.54	81.82
MW-43	9/19/2013	102 Greenwood St.	19	9 to 19	91.64	9/27/2013	11.2	80.44
						5/27/2015	10.39	81.25
						8/31/2015	11.17	80.47
MW-44 ¹	9/19/2013	102 Greenwood St.	19	9 to 19	91.16	9/27/2013	11.05	80.11
MW-44R	5/20/2015	102 Greenwood St.	20	10 to 20	91.16	5/27/2015	10.36	80.8
						8/31/2015	11.03	80.13
MW-45	9/19/2013	102 Greenwood St.	19	9 to 19	90.86	9/27/2013	11.47	79.39
						5/27/2015	11	79.86
						8/31/2015	11.49	79.37
MW-46	5/20/2015	102 Greenwood St.	20	10 to 20	89.99	5/27/2015	10.39	79.6
						8/31/2015	10.7	79.29
MW-47	5/20/2015	101 Greenwood St.	22	12 to 22	94	5/27/2015	13.55	80.45
						8/31/2015	14.11	79.89

Notes:

ft - feet

BTOR - below top of riser

BGS - below ground surface

AMSL - above mean sea level

¹ Monitoring Wells MW-34 and MW-44 were destroyed during RAM activities and replaced on May 20, 2015 with MW-34R and MW-44R, respectively.

² Top of riser and ground surface elevation of monitoring wells MW-34R, MW-43, MW-44R, MW-45, MW-46 and MW-47 were surveyed on July 2, 2015 by the City of New Bedford's Department of Public Infrastructure using an arbitrary site elevation datum of 100.00 feet. Previous elevation survey data from MW-43 and MW-45 were used to tie in the elevation data.

³ Monitoring wells MW-43 and MW-45 were originally surveyed on October 16, 2013.

Table 2
Summary of Tree Root Soil Sample Analytical Results -- April 2015
101 Greenwood and 98 Ruggles Streets
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		TREE-1	TREE-2	TREE-3	TREE-4	TREE-5
		Sample Depth (ft.):		0-3	0-3	0-3	0-3	0-3
		Sample Date:		4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015
		S-1/GW-2	S-1/GW-3					
PAHs (mg/kg)	Acenaphthene	1,000	1,000	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Acenaphthylene	600	10	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Anthracene	1,000	1,000	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Benzo(a)anthracene	7	7	0.17 U	0.21	0.17 U	0.17 U	0.17 U
	Benzo(a)pyrene	2	2	0.17 U	0.22	0.17 U	0.17 U	0.17 U
	Benzo(b)fluoranthene	7	7	0.17 U	0.22	0.17 U	0.17 U	0.17 U
	Benzo(g,h,i)perylene	1,000	1,000	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Benzo(k)fluoranthene	70	70	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Chrysene	70	70	0.17 U	0.24	0.17 U	0.18	0.17 U
	Dibenz(a,h)anthracene	0.7	0.7	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Fluoranthene	1,000	1,000	0.17 U	0.42	0.17 U	0.24	0.17 U
	Fluorene	1,000	1,000	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Indeno(1,2,3-cd)pyrene	7	7	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	2-Methylnaphthalene	80	300	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Naphthalene	20	500	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
	Phenanthrene	500	500	0.17 U	0.30	0.17 U	0.17 U	0.17 U
	Pyrene	1,000	1,000	0.17 U	0.64	0.17 U	0.33	0.17 U
PCBs (mg/kg)	Aroclor-1016	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Aroclor-1221	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Aroclor-1232	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Aroclor-1242	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Aroclor-1248	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Aroclor-1254	NS	NS	0.34	0.14	0.10 U	0.10 U	0.14
	Aroclor-1260	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Aroclor-1262	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Aroclor-1268	NS	NS	0.10 U	0.098 U	0.10 U	0.10 U	0.10 U
	Total PCBs	1	1	0.34	0.14	0.10 U	0.10 U	0.14

Table 2
Summary of Tree Root Soil Sample Analytical Results -- April 2015
101 Greenwood and 98 Ruggles Streets
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:		TREE-1	TREE-2	TREE-3	TREE-4	TREE-5
		Sample Depth (ft.):		0-3	0-3	0-3	0-3	0-3
		Sample Date:		4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015
		S-1/GW-2	S-1/GW-3					
Metals, total								
(mg/kg)	Arsenic	20	20	2.5 U	2.6 U	2.4 U	2.6 U	2.6 U
	Barium	1,000	1,000	34	34	440	34	22
	Cadmium	70	70	0.26	0.26 U	0.24 U	0.26 U	0.26 U
	Chromium	100	100	8.4	8.0	10	7.1	6.0
	Lead	200	200	40	45	4,200	22	17
	Mercury	20	20	0.37	0.032	0.025 U	0.024 U	0.024 U
	Selenium	400	400	4.9 U	5.1 U	4.8 U	5.2 U	5.2 U
	Silver	100	100	0.49 U	0.51 U	0.48 U	0.52 U	0.52 U
Metals, TCLP								
(mg/L)	Lead	5*	N/A	NA	NA	0.022	NA	NA

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

mg/L - milligrams per liter.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP standards/criteria.

Values in **Bold** indicate the compound was detected.

PAHs - Polynuclear Aromatic Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

TCLP - Toxicity Characteristic Leaching Procedure.

* - EPA SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

Table 3
Summary of Groundwater Sample Analytical Results -- 2011 through 2015
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-34			MW-36		MW-43				MW-44		
		Sample ID:		MW-34	MW-34R	MW-34R	MW-36	MW-36	MW-43	MW-43	MW-43	MW-43	MW-44	MW-44R	MW-44R
		Filter Size (micron):													
		Sample Date:		1/11/2011	5/27/2015	8/31/2015	1/11/2011	1/11/2011 Field Dup	9/27/2013	9/27/2013 Field Dup	5/27/2015	8/31/2015	9/27/2013	5/27/2015	8/31/2015
		GW-2	GW-3												
VOCs (ug/L)	Acetone	50,000	50,000	NA	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	Tertiary-Amyl Methyl Ether	NS	NS	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Benzene	1,000	10,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromobenzene	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromochloromethane	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromodichloromethane	6	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromoform	700	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Bromomethane	7	800	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
	2-Butanone	50,000	50,000	NA	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	n-Butylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	sec-Butylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	tert-Butylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Ethyl-Tert-Butyl-Ether	NS	NS	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Carbon disulfide	NS	NS	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	Carbon tetrachloride	2	5,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Chlorobenzene	200	1,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Dibromochloromethane	20	50,000	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Chloroethane	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Chloroform	50	20,000	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Chloromethane	NS	NS	NA	2.0 U	2.0 U	NA	NA	5.0 U	5.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U
	o-Chlorotoluene	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	p-Chlorotoluene	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dibromo-3-chloropropane	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2-Dibromoethane	2	50,000	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Dibromomethane	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dichlorobenzene	8,000	2,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichlorobenzene	6,000	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,4-Dichlorobenzene	60	8,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Dichlorodifluoromethane	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,1-Dichloroethane	2,000	20,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dichloroethane	5	20,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1-Dichloroethene	80	30,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	cis-1,2-Dichloroethene	20	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	trans-1,2-Dichloroethene	80	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2-Dichloropropane	3	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3-Dichloropropane	NS	NS	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	2,2-Dichloropropane	NS	NS	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1-Dichloropropene	NS	NS	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	cis-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	NA	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
	trans-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	NA	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Ethyl ether	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Isopropyl Ether	NS	NS	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
1,4-Dioxane	6,000	50,000	NA	50 U	50 U	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U	50 U	
Ethylbenzene	20,000	5,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Hexachlorobutadiene	50	3,000	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
2-Hexanone	NS	NS	NA	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	

Table 3
Summary of Groundwater Sample Analytical Results -- 2011 through 2015
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-34			MW-36		MW-43				MW-44		
		Sample ID:		MW-34	MW-34R	MW-34R	MW-36	MW-36	MW-43	MW-43	MW-43	MW-43	MW-44	MW-44R	MW-44R
		Filter Size (micron):													
		Sample Date:		1/11/2011	5/27/2015	8/31/2015	1/11/2011	1/11/2011 Field Dup	9/27/2013	9/27/2013 Field Dup	5/27/2015	8/31/2015	9/27/2013	5/27/2015	8/31/2015
		GW-2	GW-3												
	Isopropylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	p-Isopropyltoluene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Methyl tert butyl ether	50,000	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Methylene chloride	2,000	50,000	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	4-Methyl-2-pentanone	50,000	50,000	NA	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	Naphthalene	700	20,000	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	n-Propylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Styrene	100	6,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,1,2-Tetrachloroethane	10	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,2,2-Tetrachloroethane	9	50,000	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Tetrachloroethene	50	30,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Tetrahydrofuran	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	Toluene	50,000	40,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2,3-Trichlorobenzene	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	200	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,1,2-Trichloroethane	900	50,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trichloroethene	5	5,000	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Trichlorofluoromethane	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,3-Trichloropropane	NS	NS	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	1,2,4-Trimethylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,3,5-Trimethylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Vinyl chloride	2	50,000	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	p/m-Xylene	3,000 ⁽³⁾	5,000 ⁽³⁾	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	o-Xylene	3,000 ⁽³⁾	5,000 ⁽³⁾	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
SVOCs (ug/L)	Acenaphthene	NS	10,000	5.0 U	0.30 U	0.30 U	5.0 U	NA	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
	Acenaphthylene	10,000	40	5.0 U	0.30 U	0.30 U	5.0 U	NA	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
	Acetophenone	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Aniline	NS	NS	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	NA
	Anthracene	NS	30	5.0 U	0.20 U	0.20 U	5.0 U	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Benzo(a)anthracene	NS	1,000	5.0 U	0.050 U	0.050 U	5.0 U	NA	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
	Benzo(a)pyrene	NS	500	5.0 U	0.10 U	0.10 U	5.0 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	Benzo(b)fluoranthene	NS	400	5.0 U	0.050 U	0.050 U	5.0 U	NA	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
	Benzo(g,h,i)perylene	NS	20	5.0 U	0.50 U	0.50 U	5.0 U	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Benzo(k)fluoranthene	NS	100	5.0 U	0.20 U	0.20 U	5.0 U	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Bis(2-chloroethoxy)methane	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Bis(2-chloroethyl)ether	30	50,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Bis(2-chloroisopropyl)ether	100	50,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Bis(2-Ethylhexyl)phthalate	NS	50,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	4-Bromophenylphenylether	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Butylbenzylphthalate	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	4-Chloroaniline	30,000	300	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2-Chloronaphthalene	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2-Chlorophenol	20,000	7,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Chrysene	NS	70	5.0 U	0.20 U	0.20 U	5.0 U	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Dibenz(a,h)anthracene	NS	40	5.0 U	0.20 U	0.20 U	5.0 U	NA	0.10 U	0.10 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U

Table 3
Summary of Groundwater Sample Analytical Results -- 2011 through 2015
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-34			MW-36		MW-43				MW-44		
		Sample ID:		MW-34	MW-34R	MW-34R	MW-36	MW-36	MW-43	MW-43	MW-43	MW-43	MW-44	MW-44R	MW-44R
		Filter Size (micron):													
		Sample Date:		1/11/2011	5/27/2015	8/31/2015	1/11/2011	1/11/2011 Field Dup	9/27/2013	9/27/2013 Field Dup	5/27/2015	8/31/2015	9/27/2013	5/27/2015	8/31/2015
		GW-2	GW-3												
	Dibenzofuran	NS	NS	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	NA
	Di-n-octylphthalate	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	1,2-Dichlorobenzene	8,000	2,000	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	NA
	1,3-Dichlorobenzene	6,000	50,000	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	NA
	1,4-Dichlorobenzene	60	8,000	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	NA
	3,3-Dichlorobenzidine	NS	2,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2,4-Dichlorophenol	30,000	2,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Diethylphthalate	50,000	9,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2,4-Dimethylphenol	40,000	50,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Dimethylphthalate	50,000	50,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Di-n-butylphthalate	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2,4-Dinitrophenol	50,000	20,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2,4-Dinitrotoluene	20,000	50,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2,6-Dinitrotoluene	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	1,2-Diphenylhydrazine (as Azobenzene)	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Fluoranthene	NS	200	5.0 U	0.50 U	0.50 U	5.0 U	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
	Fluorene	NS	40	5.0 U	1.0 U	1.0 U	5.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Hexachlorobenzene	1	6,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Hexachlorobutadiene	50	3,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Hexachloroethane	100	50,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Indeno(1,2,3-cd)pyrene	NS	100	5.0 U	0.20 U	0.20 U	5.0 U	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Isophorone	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2-Methylnaphthalene	2,000	20,000	5.0 U	1.0 U	1.0 U	5.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	2-Methylphenol	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	3/4-Methylphenol	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Naphthalene	700	20,000	5.0 U	1.0 U	1.0 U	5.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	Nitrobenzene	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	4-Nitrophenol	NS	NS	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Pentachlorophenol	NS	200	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Phenanthrene	NS	10,000	5.0 U	0.050 U	0.050 U	5.0 U	NA	0.050 U	0.050 U	0.050 U	0.050 U	0.11	0.050 U	0.050 U
	Phenol	50,000	2,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	Pyrene	NS	20	5.0 U	1.0 U	1.0 U	5.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	NA	NA	NA	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	NA
	2,4,5-Trichlorophenol	50,000	3,000	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
	2,4,6-Trichlorophenol	5,000	500	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA
PCBs (ug/L)	Aroclor 1016	NS	NS	0.0500 U	0.20 U	0.20 U	0.0500 U	0.0500 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor 1221	NS	NS	0.0500 U	0.20 U	0.20 U	0.0500 U	0.0500 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor 1232	NS	NS	0.0500 U	0.20 U	0.20 U	0.0500 U	0.0500 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor 1242	NS	NS	0.0500 U	0.20 U	0.20 U	0.0500 U	0.0500 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor 1248	NS	NS	0.0500 U	0.20 U	0.20 U	0.138 J	0.132 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor 1254	NS	NS	0.0500 U	0.20 U	0.20 U	0.349 J	0.355 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor 1260	NS	NS	0.0500 U	0.20 U	0.20 U	0.0500 U	0.0500 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1262	NS	NS	NA	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Aroclor-1268	NS	NS	NA	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	Total PCBs	5	10	0.0500 U	0.20 U	0.20 U	0.487 J	0.487 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Table 3
Summary of Groundwater Sample Analytical Results -- 2011 through 2015
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-34			MW-36		MW-43				MW-44		
		Sample ID:		MW-34	MW-34R	MW-34R	MW-36	MW-36	MW-43	MW-43	MW-43	MW-43	MW-44	MW-44R	MW-44R
		Filter Size (micron):													
		Sample Date:		1/11/2011	5/27/2015	8/31/2015	1/11/2011	1/11/2011 Field Dup	9/27/2013	9/27/2013 Field Dup	5/27/2015	8/31/2015	9/27/2013	5/27/2015	8/31/2015
		GW-2	GW-3												
Metals, total															
(ug/L)	Antimony	NS	8,000	1.0 U	1.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	5.0 U	1.1	1.0 U	1.0 U
	Arsenic	NS	900	0.40 U	0.69	2.0 U	0.40 U	NA	0.40 U	0.40 U	0.40 U	2.0 U	0.40 U	1.1	0.68
	Barium	NS	50,000	59	88	64	26	NA	90	91	60	62	24	82	62
	Beryllium	NS	200	0.40 U	0.40 U	2.0 U	0.40 U	NA	0.40 U	0.40 U	0.40 U	2.0 U	0.40 U	0.40 U	0.40 U
	Cadmium	NS	4	0.50 U	0.50 U	2.5 U	0.50 U	NA	0.50 U	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U
	Chromium	NS	300	1.0 U	13	5.0 U	1.0 U	NA	1.0 U	1.0 U	2.1	5.0 U	2.1	13	6.6
	Lead	NS	10	1.0 U	3.4	5.0 U	1.0 U	NA	1.3	1.4	5.3	5.0 U	1.3	54	42
	Mercury	NS	20	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	Nickel	NS	200	5.0 U	19	25 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	8.5	5.0 U
	Selenium	NS	100	5.0 U	5.0 U	25 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U
	Silver	NS	7	0.50 U	0.50 U	2.5 U	0.50 U	NA	0.50 U	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	0.50 U
	Thallium	NS	3,000	0.20 U	0.20 U	1.0 U	0.20 U	NA	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U
	Vanadium	NS	4,000	5.0 U	7.1	25 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	7.8	5.0 U
	Zinc	NS	900	14	25	50 U	24	NA	10 U	10 U	10 U	50 U	10 U	60	39
Metals, dissolved															
(ug/L)	Antimony	NS	8,000	1.0 U	1.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	5.0 U	1.2	1.0 U	5.0 U
	Arsenic	NS	900	0.40 U	0.40 U	2.0 U	0.40 U	NA	0.40 U	0.40 U	0.40 U	2.0 U	0.40 U	0.40 U	2.0 U
	Barium	NS	50,000	53	64	62	25	NA	84	81	55	51	19	40	50 U
	Beryllium	NS	200	0.40 U	0.40 U	2.0 U	0.40 U	NA	0.40 U	0.40 U	0.40 U	2.0 U	0.40 U	0.40 U	2.0 U
	Cadmium	NS	4	0.50 U	0.50 U	2.5 U	0.50 U	NA	0.50 U	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	2.5 U
	Chromium	NS	300	1.0 U	1.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U
	Lead	NS	10	1.0 U	1.0 U	5.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U
	Mercury	NS	20	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	Nickel	NS	200	5.0 U	15	25 U	5.0 U	NA	5.0 U	5.7	5.0 U	25 U	6.9	5.0 U	25 U
	Selenium	NS	100	5.0 U	5.0 U	25 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	25 U
	Silver	NS	7	0.50 U	0.50 U	2.5 U	0.50 U	NA	0.50 U	0.50 U	0.50 U	2.5 U	0.50 U	0.50 U	2.5 U
	Thallium	NS	3,000	0.20 U	0.20 U	1.0 U	0.20 U	NA	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	1.0 U
	Vanadium	NS	4,000	5.0 U	5.0 U	25 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	25 U
	Zinc	NS	900	17	13	50 U	28	NA	10 U	11	10 U	50 U	15	12	50 U

Notes:

ug/L - micrograms per liter.

J - Estimated value.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

VOCs - Volatile Organic Compounds.

SVOCs - Semi-Volatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.

(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

(3) - Criteria applicable to xylene (total), the sum of the xylene isomers.

Table 3
Summary of Groundwater Sample Analytical Results -- 2011 through 2015
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-45			MW-46						MW-47			
		Sample ID:		MW-45	MW-45	MW-45	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-47	MW-47
		Filter Size (micron):							0.45	0.45			0.45	0.45		
		Sample Date:		9/27/2013	5/27/2015	9/1/2015	5/28/2015	5/28/2015	5/28/2015	5/28/2015	9/1/2015	9/1/2015	9/1/2015	9/1/2015	5/27/2015	9/1/2015
		GW-2	GW-3					Field Dup		Field Dup		Field Dup				
VOCs (ug/L)	Acetone	50,000	50,000	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	10 U	10 U
	Tertiary-Amyl Methyl Ether	NS	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	Benzene	1,000	10,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Bromobenzene	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Bromochloromethane	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Bromodichloromethane	6	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Bromoform	700	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Bromomethane	7	800	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	NA	NA	2.0 U	2.0 U	NA	NA	5.0 U	2.0 U
	2-Butanone	50,000	50,000	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	10 U	10 U
	n-Butylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	sec-Butylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	tert-Butylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Ethyl-Tert-Butyl-Ether	NS	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	Carbon disulfide	NS	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
	Carbon tetrachloride	2	5,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Chlorobenzene	200	1,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Dibromochloromethane	20	50,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	Chloroethane	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	Chloroform	50	20,000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	Chloromethane	NS	NS	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	o-Chlorotoluene	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	p-Chlorotoluene	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,2-Dibromo-3-chloropropane	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	1,2-Dibromoethane	2	50,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	Dibromomethane	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,2-Dichlorobenzene	8,000	2,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,3-Dichlorobenzene	6,000	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,4-Dichlorobenzene	60	8,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Dichlorodifluoromethane	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	1,1-Dichloroethane	2,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,2-Dichloroethane	5	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,1-Dichloroethene	80	30,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	cis-1,2-Dichloroethene	20	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	2.5	2.8	NA	NA	1.0 U	1.0 U
	trans-1,2-Dichloroethene	80	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,2-Dichloropropane	3	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,3-Dichloropropane	NS	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	2,2-Dichloropropane	NS	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,1-Dichloropropene	NS	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	cis-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U
	trans-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U
Ethyl ether	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	
Isopropyl Ether	NS	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	
1,4-Dioxane	6,000	50,000	50 U	50 U	50 U	50 U	50 U	NA	NA	50 U	50 U	NA	NA	50 U	50 U	
Ethylbenzene	20,000	5,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	
Hexachlorobutadiene	50	3,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	
2-Hexanone	NS	NS	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	10 U	10 U	

Table 3
Summary of Groundwater Sample Analytical Results -- 2011 through 2015
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-45			MW-46						MW-47			
		Sample ID:		MW-45	MW-45	MW-45	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-47	MW-47
		Filter Size (micron):							0.45	0.45			0.45	0.45		
		Sample Date:		9/27/2013	5/27/2015	9/1/2015	5/28/2015	5/28/2015	5/28/2015	5/28/2015	9/1/2015	9/1/2015	9/1/2015	9/1/2015	5/27/2015	9/1/2015
		GW-2	GW-3					Field Dup		Field Dup		Field Dup				
	Isopropylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	p-Isopropyltoluene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	2.1	1.7	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Methyl tert butyl ether	50,000	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Methylene chloride	2,000	50,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
	4-Methyl-2-pentanone	50,000	50,000	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	10 U	10 U
	Naphthalene	700	20,000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	n-Propylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Styrene	100	6,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,1,1,2-Tetrachloroethane	10	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,1,2,2-Tetrachloroethane	9	50,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	Tetrachloroethene	50	30,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Tetrahydrofuran	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	Toluene	50,000	40,000	1.0 U	1.0 U	1.0 U	6.4	5.4	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,2,3-Trichlorobenzene	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	200	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,1,2-Trichloroethane	900	50,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Trichloroethene	5	5,000	1.4	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	2.0	2.2	NA	NA	1.0 U	1.0 U
	Trichlorofluoromethane	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	1,2,3-Trichloropropane	NS	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	1,2,4-Trimethylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	1,3,5-Trimethylbenzene	4,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
	Vinyl chloride	2	50,000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	p/m-Xylene	3,000 ⁽³⁾	5,000 ⁽³⁾	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U
	o-Xylene	3,000 ⁽³⁾	5,000 ⁽³⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
SVOCs (ug/L)	Acenaphthene	NS	10,000	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	NA	NA	0.30 U	0.30 U	NA	NA	0.30 U	0.30 U
	Acenaphthylene	10,000	40	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	NA	NA	0.30 U	0.30 U	NA	NA	0.30 U	0.30 U
	Acetophenone	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Aniline	NS	NS	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Anthracene	NS	30	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U
	Benzo(a)anthracene	NS	1,000	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	NA	NA	0.050 U	0.050 U	NA	NA	0.050 U	0.050 U
	Benzo(a)pyrene	NS	500	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U
	Benzo(b)fluoranthene	NS	400	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	NA	NA	0.050 U	0.050 U	NA	NA	0.050 U	0.050 U
	Benzo(g,h,i)perylene	NS	20	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U
	Benzo(k)fluoranthene	NS	100	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U
	Bis(2-chloroethoxy)methane	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroethyl)ether	30	50,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-chloroisopropyl)ether	100	50,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Bis(2-Ethylhexyl)phthalate	NS	50,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Bromophenylphenylether	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Butylbenzylphthalate	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4-Chloroaniline	30,000	300	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chloronaphthalene	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-Chlorophenol	20,000	7,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chrysene	NS	70	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U
	Dibenz(a,h)anthracene	NS	40	0.10 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U

Table 3
Summary of Groundwater Sample Analytical Results -- 2011 through 2015
Acquired Residential Properties
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-45			MW-46						MW-47			
		Sample ID:		MW-45	MW-45	MW-45	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-47	MW-47
		Filter Size (micron):							0.45	0.45			0.45	0.45		
		Sample Date:		9/27/2013	5/27/2015	9/1/2015	5/28/2015	5/28/2015	5/28/2015	5/28/2015	9/1/2015	9/1/2015	9/1/2015	9/1/2015	5/27/2015	9/1/2015
		GW-2	GW-3					Field Dup	Field Dup	Field Dup	Field Dup	Field Dup				
	Dibenzofuran	NS	NS	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Di-n-octylphthalate	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	1,2-Dichlorobenzene	8,000	2,000	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	1,3-Dichlorobenzene	6,000	50,000	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	1,4-Dichlorobenzene	60	8,000	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3,3-Dichlorobenzidine	NS	2,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2,4-Dichlorophenol	30,000	2,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Diethylphthalate	50,000	9,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2,4-Dimethylphenol	40,000	50,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Dimethylphthalate	50,000	50,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Di-n-butylphthalate	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2,4-Dinitrophenol	50,000	20,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2,4-Dinitrotoluene	20,000	50,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2,6-Dinitrotoluene	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	1,2-Diphenylhydrazine (as Azobenzene)	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Fluoranthene	NS	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	
	Fluorene	NS	40	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	
	Hexachlorobenzene	1	6,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Hexachlorobutadiene	50	3,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Hexachloroethane	100	50,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Indeno(1,2,3-cd)pyrene	NS	100	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	NA	NA	0.20 U	
	Isophorone	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2-Methylnaphthalene	2,000	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	
	2-Methylphenol	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3/4-Methylphenol	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Naphthalene	700	20,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	
	Nitrobenzene	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2-Nitrophenol	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	4-Nitrophenol	NS	NS	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Pentachlorophenol	NS	200	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Phenanthrene	NS	10,000	0.050 U	0.050 U	0.050 U	0.093	0.074	NA	NA	0.12 B	0.13 B	NA	NA	0.050 U	
	Phenol	50,000	2,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Pyrene	NS	20	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	
	1,2,4-Trichlorobenzene	2,000	50,000	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2,4,5-Trichlorophenol	50,000	3,000	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2,4,6-Trichlorophenol	5,000	500	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs (ug/L)	Aroclor 1016	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	
	Aroclor 1221	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	
	Aroclor 1232	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	
	Aroclor 1242	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	
	Aroclor 1248	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	4.1	0.20 U	0.20 U	0.20 U	0.20 U	
	Aroclor 1254	NS	NS	0.20 U	0.20 U	0.20 U	8.6	9.3	0.73	0.87	5.6	0.20 U	0.20 U	0.28	0.20 U	
	Aroclor 1260	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	
	Aroclor-1262	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	
	Aroclor-1268	NS	NS	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	
	Total PCBs	5	10	0.20 U	0.20 U	0.20 U	8.6	9.3	0.73	0.87	9.7	0.20 U	0.20 U	0.28	0.20 U	

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New Bedford, Massachusetts

Analysis	Analyte	Sample Location:		MW-45			MW-46						MW-47				
				Sample ID:	MW-45	MW-45	MW-45	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-46	DUP	MW-47	MW-47
				Filter Size (micron):													
		Sample Date:	9/27/2013	5/27/2015	9/1/2015	5/28/2015	5/28/2015	5/28/2015	5/28/2015	9/1/2015	9/1/2015	9/1/2015	9/1/2015	5/27/2015	9/1/2015		
		GW-2	GW-3					Field Dup		Field Dup		Field Dup					
Metals, total																	
(ug/L)	Antimony	NS	8,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	2.0	2.2	
	Arsenic	NS	900	0.40 U	0.62	0.40	0.86	0.81	NA	NA	0.97	1.0	NA	NA	0.68	0.85	
	Barium	NS	50,000	36	35	30	62	59	NA	NA	78	75	NA	NA	89	90	
	Beryllium	NS	200	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U	NA	NA	0.40 U	0.40 U	
	Cadmium	NS	4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	
	Chromium	NS	300	1.0 U	3.3	1.1	1.1	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.8	2.1	
	Lead	NS	10	1.2	22	13	12	8.0	NA	NA	12	12	NA	NA	3.7	2.8	
	Mercury	NS	20	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U	
	Nickel	NS	200	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	6.0	6.7	
	Selenium	NS	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.5	
	Silver	NS	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	
	Thallium	NS	3,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	
	Vanadium	NS	4,000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	
	Zinc	NS	900	36	70	62	11	10 U	NA	NA	33	32	NA	NA	10 U	10 U	
Metals, dissolved																	
(ug/L)	Antimony	NS	8,000	1.0 U	1.0 U	5.0 U	NA	NA	1.0 U	1.0 U	NA	NA	5.0 U	5.0 U	2.0	5.0 U	
	Arsenic	NS	900	0.40 U	0.40 U	2.0 U	NA	NA	0.72	0.68	NA	NA	2.0 U	2.0 U	0.64	2.0 U	
	Barium	NS	50,000	37	26	50 U	NA	NA	57	57	NA	NA	79	76	84	89	
	Beryllium	NS	200	0.40 U	0.40 U	2.0 U	NA	NA	0.40 U	0.40 U	NA	NA	2.0 U	2.0 U	0.40 U	2.0 U	
	Cadmium	NS	4	0.50 U	0.50 U	2.5 U	NA	NA	0.50 U	0.50 U	NA	NA	2.5 U	2.5 U	0.50 U	2.5 U	
	Chromium	NS	300	1.0 U	1.0 U	5.0 U	NA	NA	1.0 U	1.0 U	NA	NA	5.0 U	5.0 U	1.0 U	5.0 U	
	Lead	NS	10	1.0 U	1.8	5.0 U	NA	NA	1.0 U	1.0 U	NA	NA	5.0 U	5.0 U	1.0 U	5.0 U	
	Mercury	NS	20	0.10 U	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	
	Nickel	NS	200	8.8	5.0 U	25 U	NA	NA	5.0 U	5.0 U	NA	NA	25 U	25 U	5.4	25 U	
	Selenium	NS	100	5.0 U	5.0 U	25 U	NA	NA	5.0 U	5.0 U	NA	NA	25 U	25 U	5.0 U	25 U	
	Silver	NS	7	0.50 U	0.50 U	2.5 U	NA	NA	0.50 U	0.50 U	NA	NA	2.5 U	2.5 U	0.50 U	2.5 U	
	Thallium	NS	3,000	0.20 U	0.20 U	1.0 U	NA	NA	0.20 U	0.20 U	NA	NA	1.0 U	1.0 U	0.20 U	1.0 U	
	Vanadium	NS	4,000	5.0 U	5.0 U	25 U	NA	NA	5.0 U	5.0 U	NA	NA	25 U	25 U	5.0 U	25 U	
	Zinc	NS	900	46	52	59	NA	NA	10 U	10 U	NA	NA	54	50 U	10 U	50 U	

Notes:

ug/L - micrograms per liter.

J - Estimated value.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

VOCs - Volatile Organic Compounds.

SVOCS - Semi-Volatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.

(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

(3) - Criteria applicable to xylene (total), the sum of the xylene isomers.

Table 4
Summary of Tree Stump Sample Analytical Results - May 2015
101 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Date:		TREE-3- STUMP 5/28/2015
		S-1/GW-2	S-1/GW-3	
VOCs (mg/kg)				
	Acetone	50	400	11 U
	tert-Amyl Methyl Ether (TAME)	NS	NS	0.11 U
	Benzene	40	40	0.22 U
	Bromobenzene	NS	NS	0.22 U
	Bromochloromethane	NS	NS	0.22 U
	Bromodichloromethane	0.1	30	0.22 U
	Bromoform	1	300	0.22 U
	Bromomethane	0.5	30	1.1 U
	2-Butanone (MEK)	50	400	4.4 U
	n-Butylbenzene	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	sec-Butylbenzene	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	tert-Butylbenzene	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	tert-Butyl Ethyl Ether (TBEE)	NS	NS	0.11 U
	Carbon Disulfide	NS	NS	2.2 U
	Carbon Tetrachloride	5	30	0.22 U
	Chlorobenzene	3	100	0.22 U
	Chlorodibromomethane	0.03	20	0.11 U
	Chloroethane	NS	NS	0.44 U
	Chloroform	0.2	500	0.44 U
	Chloromethane	NS	NS	0.44 U
	2-Chlorotoluene	NS	NS	0.22 U
	4-Chlorotoluene	NS	NS	0.22 U
	1,2-Dibromo-3-chloropropane (DBCP)	NS	NS	0.89 U
	1,2-Dibromoethane (EDB)	0.1	1	0.11 U
	Dibromomethane	NS	NS	0.22 U
	1,2-Dichlorobenzene	100	300	0.22 U
	1,3-Dichlorobenzene	100	100	0.22 U
	1,4-Dichlorobenzene	1	80	0.22 U
	Dichlorodifluoromethane (Freon 12)	NS	NS	0.44 U
	1,1-Dichloroethane	9	500	0.22 U
	1,2-Dichloroethane	0.1	20	0.22 U
	1,1-Dichloroethylene	40	500	0.22 U
	cis-1,2-Dichloroethylene	0.1	100	0.22 U
	trans-1,2-Dichloroethylene	1	500	0.22 U
	1,2-Dichloropropane	0.1	30	0.22 U
	1,3-Dichloropropane	NS	NS	0.11 U
	2,2-Dichloropropane	NS	NS	0.22 U
	1,1-Dichloropropene	NS	NS	0.44 U
	cis-1,3-Dichloropropene	0.4 ⁽²⁾	20 ⁽²⁾	0.11 U
	trans-1,3-Dichloropropene	0.4 ⁽²⁾	20 ⁽²⁾	0.11 U
	Diethyl Ether	NS	NS	0.44 U
	Diisopropyl Ether (DIPE)	NS	NS	0.11 U
	1,4-Dioxane	6	20	11 U
	Ethylbenzene	500	500	0.22 U
	Hexachlorobutadiene	30	30	0.22 U
	2-Hexanone (MBK)	NS	NS	2.2 U
	Isopropylbenzene (Cumene)	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	p-Isopropyltoluene (p-Cymene)	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	Methyl tert-Butyl Ether (MTBE)	100	100	0.22 U
	Methylene Chloride	4	400	1.1 U
	4-Methyl-2-pentanone (MIBK)	50	400	2.2 U
	Naphthalene	20	500	0.44 U
	n-Propylbenzene	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	Styrene	4	70	0.22 U

Table 4
Summary of Tree Stump Sample Analytical Results - May 2015
101 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Date:		TREE-3- STUMP 5/28/2015
		S-1/GW-2	S-1/GW-3	
	1,1,1,2-Tetrachloroethane	0.1	80	0.22 U
	1,1,2,2-Tetrachloroethane	0.02	10	0.11 U
	Tetrachloroethylene	10	30	0.22 U
	Tetrahydrofuran	NS	NS	0.89 U
	Toluene	500	500	0.22 U
	1,2,3-Trichlorobenzene	NS	NS	0.89 U
	1,2,4-Trichlorobenzene	6	700	0.22 U
	1,1,1-Trichloroethane	500	500	0.22 U
	1,1,2-Trichloroethane	2	40	0.22 U
	Trichloroethylene	0.3	30	0.22 U
	Trichlorofluoromethane (Freon 11)	NS	NS	0.44 U
	1,2,3-Trichloropropane	NS	NS	0.44 U
	1,2,4-Trimethylbenzene	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	1,3,5-Trimethylbenzene	100 ⁽¹⁾	100 ⁽¹⁾	0.22 U
	Vinyl Chloride	0.7	1	0.44 U
	m+p Xylene	100 ⁽³⁾	500 ⁽³⁾	0.44 U
	o-Xylene	100 ⁽³⁾	500 ⁽³⁾	0.22 U
PAHs (mg/kg)	Acenaphthene	1,000	1,000	0.83 U
	Acenaphthylene	600	10	0.83 U
	Anthracene	1,000	1,000	0.83 U
	Benzo(a)anthracene	7	7	0.83 U
	Benzo(a)pyrene	2	2	0.83 U
	Benzo(b)fluoranthene	7	7	0.83 U
	Benzo(g,h,i)perylene	1,000	1,000	0.83 U
	Benzo(k)fluoranthene	70	70	0.83 U
	Chrysene	70	70	0.83 U
	Dibenz(a,h)anthracene	0.7	0.7	0.83 U
	Fluoranthene	1,000	1,000	0.83 U
	Fluorene	1,000	1,000	0.83 U
	Indeno(1,2,3-cd)pyrene	7	7	0.83 U
	2-Methylnaphthalene	80	300	0.83 U
	Naphthalene	20	500	0.83 U
	Phenanthrene	500	500	0.83 U
	Pyrene	1,000	1,000	0.83 U
PCBs (mg/kg)	Aroclor-1016	NS	NS	0.096 U
	Aroclor-1221	NS	NS	0.096 U
	Aroclor-1232	NS	NS	0.096 U
	Aroclor-1242	NS	NS	0.096 U
	Aroclor-1248	NS	NS	0.096 U
	Aroclor-1254	NS	NS	0.66
	Aroclor-1260	NS	NS	0.15
	Aroclor-1262	NS	NS	0.096 U
	Aroclor-1268	NS	NS	0.096 U
	Total PCBs	1	1	0.81
Metals, total (mg/kg)	Arsenic	20	20	2.4 U
	Barium	1,000	1,000	270
	Cadmium	70	70	0.76
	Chromium	100	100	1.1
	Lead	200	200	28
	Mercury	20	20	0.032
	Selenium	400	400	4.9 U
	Silver	100	100	0.49 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

VOCs - Volatile Organic Compounds.

PAHs - Polynuclear Aromatic Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

(1) - MassDEP Method 1 standards for C9-C10 aromatics used.

(2) - MassDEP Method 1 standards for 1,3-Dichloropropene used.

(3) - Criteria applicable to xylene (total), the sum of the xylene isomers.

Table 5
Summary of Post-Excavation Soil Sample Analytical Results -- PCBs
November 2014 and January 2015
101-102 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	CTP-102-7-E	CTP-102-7-N	2PEX-6		2PEX 6-E	2PEX 6-N	
		Sample Depth (ft.):	0-3	0-3	1-3	1-3	1-3	1-3	1-3
		Sample Date:	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/21/2014	11/21/2014	11/21/2014
Action Level*					Field Dup			Field Dup	
PCBs (mg/kg)	Aroclor-1016		0.59 U	2.0 U	5.9 U	5.9 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1221		0.59 U	2.0 U	5.9 U	5.9 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1232		0.59 U	2.0 U	5.9 U	5.9 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1242		0.59 U	2.0 U	5.9 U	5.9 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1248		0.59 U	2.0 U	5.9 U	5.9 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1254		4.8	15	56	57	0.128	3.44	3.83
	Aroclor-1260		0.59 U	2.0 U	5.9 U	5.9 U	0.0372	0.363 U	0.358 U
	Aroclor-1262		0.59 U	2.0 U	5.9 U	5.9 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1268		0.59 U	2.0 U	5.9 U	5.9 U	0.0348 U	0.363 U	0.358 U
	Total PCBs	20	4.8	15	56	57	0.165	3.44	3.83

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Gray shading indicates sample locations that have been excavated and disposed off-site.

PCBs - Polychlorinated Biphenyls.

* - EPA-approved Project-Specific Action Level.

Table 5
Summary of Post-Excavation Soil Sample Analytical Results -- PCBs
November 2014 and January 2015
101-102 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	1 PEX_1	1 PEX_2	1 PEX_3	1 PEX_4	1 PEX_5	1 PEX_6	
		Sample Depth (ft.):	1-3	1-3	1-3	3-5	4.5-6	4-6	7-9
		Sample Date:	1/7/2015	1/7/2015	1/7/2015	1/12/2015	1/13/2015	1/13/2015	1/13/2015
Action Level*									
PCBs (mg/kg)	Aroclor-1016		0.61 U	1.1 U	0.11 U	0.10 U	0.10 U	0.11 U	0.67 U
	Aroclor-1221		0.61 U	1.1 U	0.11 U	0.10 U	0.10 U	0.11 U	0.67 U
	Aroclor-1232		0.61 U	1.1 U	0.11 U	0.10 U	0.10 U	0.11 U	0.67 U
	Aroclor-1242		0.61 U	1.1 U	0.11 U	0.10 U	0.10 U	0.11 U	0.67 U
	Aroclor-1248		0.61 U	1.1 U	0.11 U	0.10 U	0.10 U	0.11 U	0.67 U
	Aroclor-1254		4.1	5.7	0.31	0.10 U	0.10 U	0.15	3.9
	Aroclor-1260		0.98	1.2	0.27	0.10 U	0.10 U	0.18	0.67 U
	Aroclor-1262		0.61 U	1.1 U	0.11 U	0.10 U	0.10 U	0.11 U	0.67 U
	Aroclor-1268		0.61 U	1.1 U	0.11 U	0.10 U	0.10 U	0.11 U	0.67 U
	Total PCBs	20	5.08	6.9	0.58	0.10 U	0.10 U	0.31	3.9

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm)

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Gray shading indicates sample locations that have been excavated and disposed off-site.

PCBs - Polychlorinated Biphenyls.

* - EPA-approved Project-Specific Action Level.

Table 5
Summary of Post-Excavation Soil Sample Analytical Results -- PCBs
November 2014 and January 2015
101-102 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	1 PEX_7	1 PEX_8	2 PEX_1		2 PEX_2	2 PEX_3	2 PEX_4
		Sample Depth (ft.):	5-7	1-3	5-7	5-7	5-7	5-7	5-7
		Sample Date:	1/13/2015	1/9/2015	1/15/2015	1/15/2015	1/21/2015	1/21/2015	1/21/2015
Action Level*					Field Dup				
PCBs (mg/kg)	Aroclor-1016		2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U	0.10 U
	Aroclor-1221		2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U	0.10 U
	Aroclor-1232		2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U	0.10 U
	Aroclor-1242		2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U	0.10 U
	Aroclor-1248		2.7 U	0.15	0.10 U	0.11 U	0.29 U	6.9 U	0.10 U
	Aroclor-1254		18	0.67	0.10 U	0.24	1.6	47	0.10 U
	Aroclor-1260		2.7 U	0.10 U	0.10 U	0.11 U	0.71	6.9 U	0.10 U
	Aroclor-1262		2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U	0.10 U
	Aroclor-1268		2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U	0.10 U
	Total PCBs	20	18	0.82	0.10 U	0.24	2.31	47	0.10 U

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm)

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Gray shading indicates sample locations that have been excavated and disposed off-site.

PCBs - Polychlorinated Biphenyls.

* - EPA-approved Project-Specific Action Level.

Table 5
Summary of Post-Excavation Soil Sample Analytical Results -- PCBs
November 2014 and January 2015
101-102 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	2 PEX_5	2PEX 6-E	2PEX 6-N	
		Sample Depth (ft.):	5-7	1-3	1-3	1-3
		Sample Date:	1/21/2015	11/21/2014	11/21/2014	11/21/2014
Action Level*					Field Dup	
PCBs (mg/kg)	Aroclor-1016		0.10 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1221		0.10 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1232		0.10 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1242		0.10 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1248		0.10 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1254		0.93	0.128	3.44	3.83
	Aroclor-1260		0.10 U	0.0372	0.363 U	0.358 U
	Aroclor-1262		0.10 U	0.0348 U	0.363 U	0.358 U
	Aroclor-1268		0.10 U	0.0348 U	0.363 U	0.358 U
	Total PCBs	20	0.93	0.165	3.44	3.83

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm)

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Gray shading indicates sample locations that have been excavated and disposed off-site.

PCBs - Polychlorinated Biphenyls.

* - EPA-approved Project-Specific Action Level.

Table 6
Summary of Post-Excavation Soil Sample Analytical Results -VOCs
January 2015
102 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Depth (ft.): Sample Date:	VPEX_1		VPEX_2	VPEX_3	VPEX_4	VPEX_5	VPEX_B1	VPEX_B2	VPEX_B3	VPEX_B4	VPEX_B5	VPEX_8
			5-6	5-6	6-7	6-7	6-7	5-6	7	7	11-12	19	15	5
			1/16/2015	1/16/2015 Field Dup	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/20/2015	1/20/2015	1/20/2015
VOCs (mg/kg)	Acetone		0.056 U	0.052 U	0.14 U	0.11 U	0.10 U	5.4 U	0.34 U	0.12 U	0.055 U	0.061 U	0.071 U	0.085 U
	tert-Amyl Methyl Ether (TAME)		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	Benzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Bromobenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Bromochloromethane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Bromodichloromethane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Bromoform		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.54 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	Bromomethane		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.22 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	2-Butanone (MEK)		0.022 U	0.021 U	0.057 U	0.043 U	0.040 U	2.2 U	0.14 U	0.049 U	0.022 U	0.024 U	0.028 U	0.034 U
	n-Butylbenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	sec-Butylbenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	tert-Butylbenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	tert-Butyl Ethyl Ether (TBEE)		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	Carbon Disulfide		0.0034 U	0.0031 U	0.0085 U	0.0064 U	0.0061 U	1.1 U	0.020 U	0.0073 U	0.0033 U	0.0037 U	0.0042 U	0.0051 U
	Carbon Tetrachloride		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Chlorobenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Chlorodibromomethane		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.11 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	Chloroethane		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.22 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	Chloroform		0.0022 U	0.0021 U	0.0057 U	0.0043 U	0.0040 U	0.22 U	0.014 U	0.0049 U	0.0022 U	0.0024 U	0.0028 U	0.0034 U
	Chloromethane		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.22 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	2-Chlorotoluene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	4-Chlorotoluene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,2-Dibromo-3-chloropropane (DBCP)		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	1.1 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,2-Dibromoethane (EDB)		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	Dibromomethane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,2-Dichlorobenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,3-Dichlorobenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,4-Dichlorobenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Dichlorodifluoromethane (Freon 12)		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.22 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	1,1-Dichloroethane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,2-Dichloroethane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,1-Dichloroethylene		0.0022 U	0.0021 U	0.0057 U	0.0043 U	0.0040 U	0.11 U	0.014 U	0.0049 U	0.0022 U	0.0024 U	0.0028 U	0.0034 U
	cis-1,2-Dichloroethylene		0.0011 U	0.0010 U	0.024	0.0041	0.0020 U	0.15	0.012	0.014	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	trans-1,2-Dichloroethylene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,2-Dichloropropane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,3-Dichloropropane		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	2,2-Dichloropropane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,1-Dichloropropene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.22 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	cis-1,3-Dichloropropene		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	trans-1,3-Dichloropropene		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	Diethyl Ether		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.22 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	Diisopropyl Ether (DIPE)		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	1,4-Dioxane		0.056 U	0.052 U	0.14 U	0.11 U	0.10 U	5.4 U	0.34 U	0.12 U	0.055 U	0.061 U	0.071 U	0.085 U
	Ethylbenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Hexachlorobutadiene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.22 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	2-Hexanone (MBK)		0.011 U	0.010 U	0.028 U	0.021 U	0.020 U	1.1 U	0.068 U	0.024 U	0.011 U	0.012 U	0.014 U	0.017 U
	Isopropylbenzene (Cumene)		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U

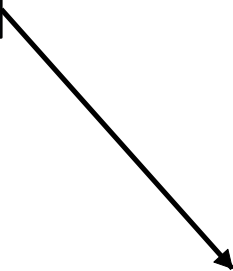
Table 6
Summary of Post-Excavation Soil Sample Analytical Results -VOCs
January 2015
102 Greenwood Street
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Depth (ft.): Sample Date:	VPEX_1		VPEX_2	VPEX_3	VPEX_4	VPEX_5	VPEX_B1	VPEX_B2	VPEX_B3	VPEX_B4	VPEX_B5	VPEX_8
			5-6	5-6	6-7	6-7	6-7	5-6	7	7	11-12	19	15	5
			1/16/2015	1/16/2015 Field Dup	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/20/2015	1/20/2015	1/20/2015
	p-Isopropyltoluene (p-Cymene)		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Methyl tert-Butyl Ether (MTBE)		0.0022 U	0.0021 U	0.0057 U	0.0043 U	0.0040 U	0.11 U	0.014 U	0.0049 U	0.0022 U	0.0024 U	0.0028 U	0.0034 U
	Methylene Chloride		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.54 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	4-Methyl-2-pentanone (MIBK)		0.011 U	0.010 U	0.028 U	0.021 U	0.020 U	1.1 U	0.068 U	0.024 U	0.011 U	0.012 U	0.014 U	0.017 U
	Naphthalene		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	1.1 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	n-Propylbenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Styrene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,1,1,2-Tetrachloroethane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,1,2,2-Tetrachloroethane		0.00056 U	0.00052 U	0.0014 U	0.0011 U	0.0010 U	0.054 U	0.0034 U	0.0012 U	0.00055 U	0.00061 U	0.00071 U	0.00085 U
	Tetrachloroethylene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Tetrahydrofuran		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.43 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	Toluene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,2,3-Trichlorobenzene		0.0022 U	0.0021 U	0.0057 U	0.0043 U	0.0040 U	0.54 U	0.014 U	0.0049 U	0.0022 U	0.0024 U	0.0028 U	0.0034 U
	1,2,4-Trichlorobenzene		0.0022 U	0.0021 U	0.0057 U	0.0043 U	0.0040 U	0.54 U	0.014 U	0.0049 U	0.0022 U	0.0024 U	0.0028 U	0.0034 U
	1,1,1-Trichloroethane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,1,2-Trichloroethane		0.0011 U	0.0010 U	0.0068	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Trichloroethylene		0.0095	0.0079	46	0.087	0.025	5.8	43	10	0.023	0.0012 U	0.0014 U	0.039
	Trichlorofluoromethane (Freon 11)		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.22 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	1,2,3-Trichloropropane		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.22 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,2,4-Trimethylbenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	1,3,5-Trimethylbenzene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U
	Vinyl Chloride		0.0056 U	0.0052 U	0.014 U	0.011 U	0.010 U	0.22 U	0.034 U	0.012 U	0.0055 U	0.0061 U	0.0071 U	0.0085 U
	m+p Xylene		0.0022 U	0.0021 U	0.0057 U	0.0043 U	0.0040 U	0.22 U	0.014 U	0.0049 U	0.0022 U	0.0024 U	0.0028 U	0.0034 U
	o-Xylene		0.0011 U	0.0010 U	0.0028 U	0.0021 U	0.0020 U	0.11 U	0.0068 U	0.0024 U	0.0011 U	0.0012 U	0.0014 U	0.0017 U

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Gray shading indicates samples that have been excavated and disposed off-site.
VOCs - Volatile Organic Compounds.

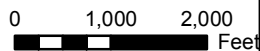
FIGURES

SITE LOCATION



R:\Projects\GIS_2014\115058_NewBedford\mxd\Fig1_SiteLocus_101Greenwood_2015_09_21.mxd

Basemap: New Bedford North and New Bedford South
USGS 7.5-Minute Topographic Quadrangles



Massachusetts



**SITE
LOCATION**

Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
978-970-5600

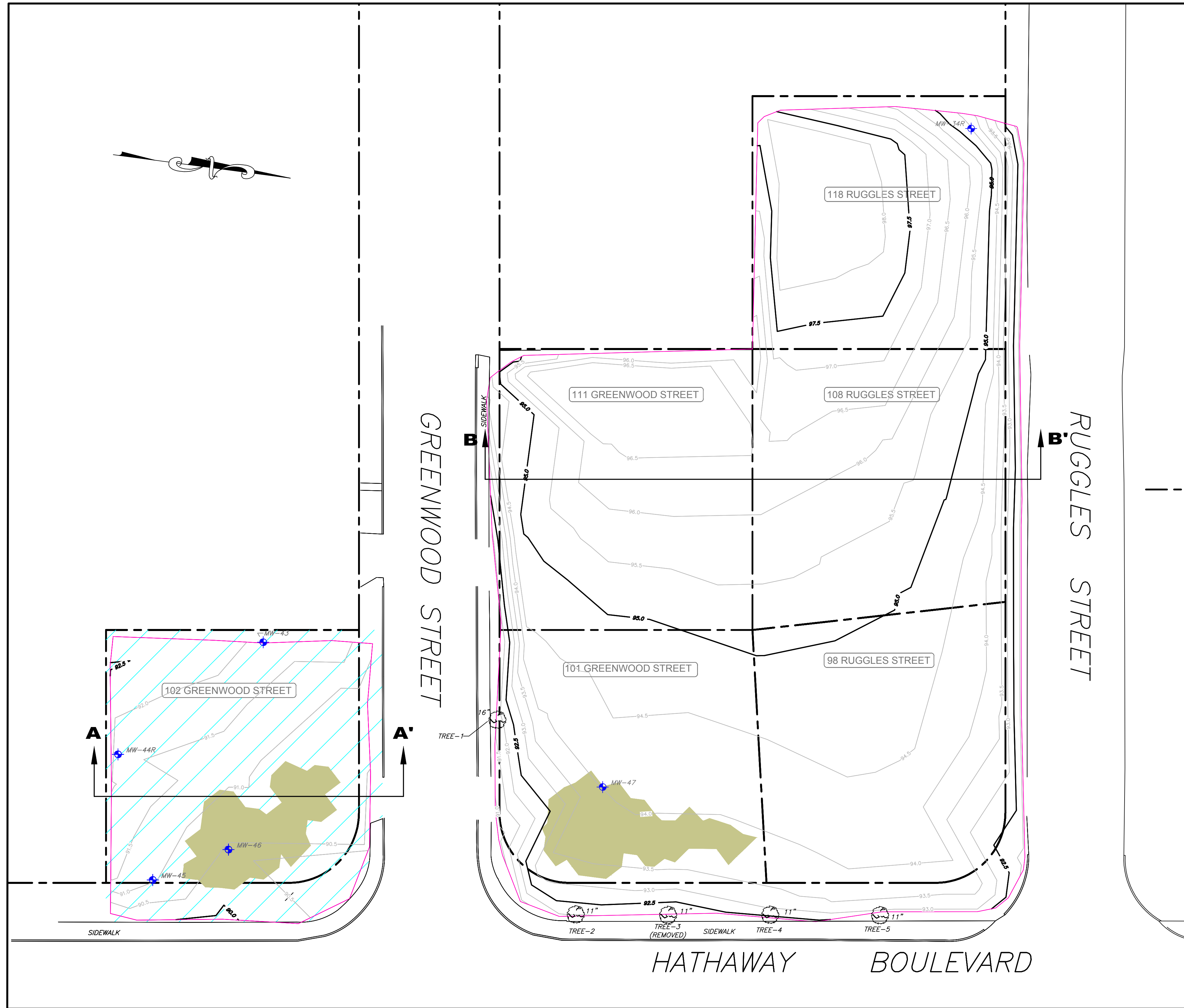
SITE LOCUS MAP

**ACQUIRED RESIDENTIAL PROPERTIES
NEW BEDFORD, MA**

FIGURE 1

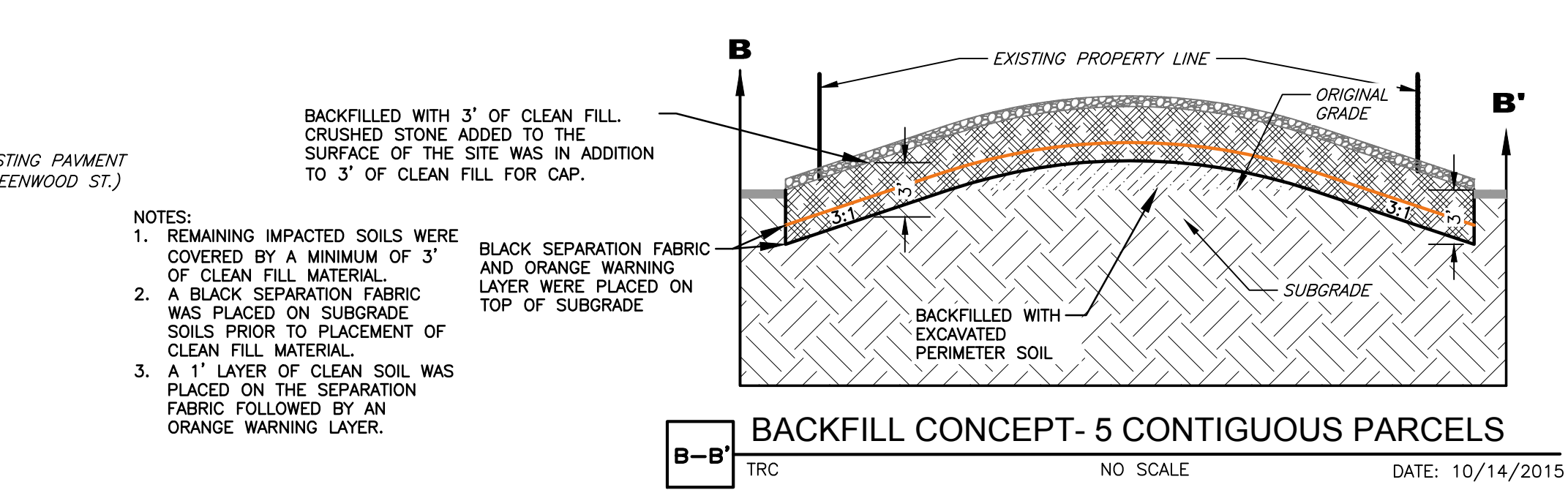
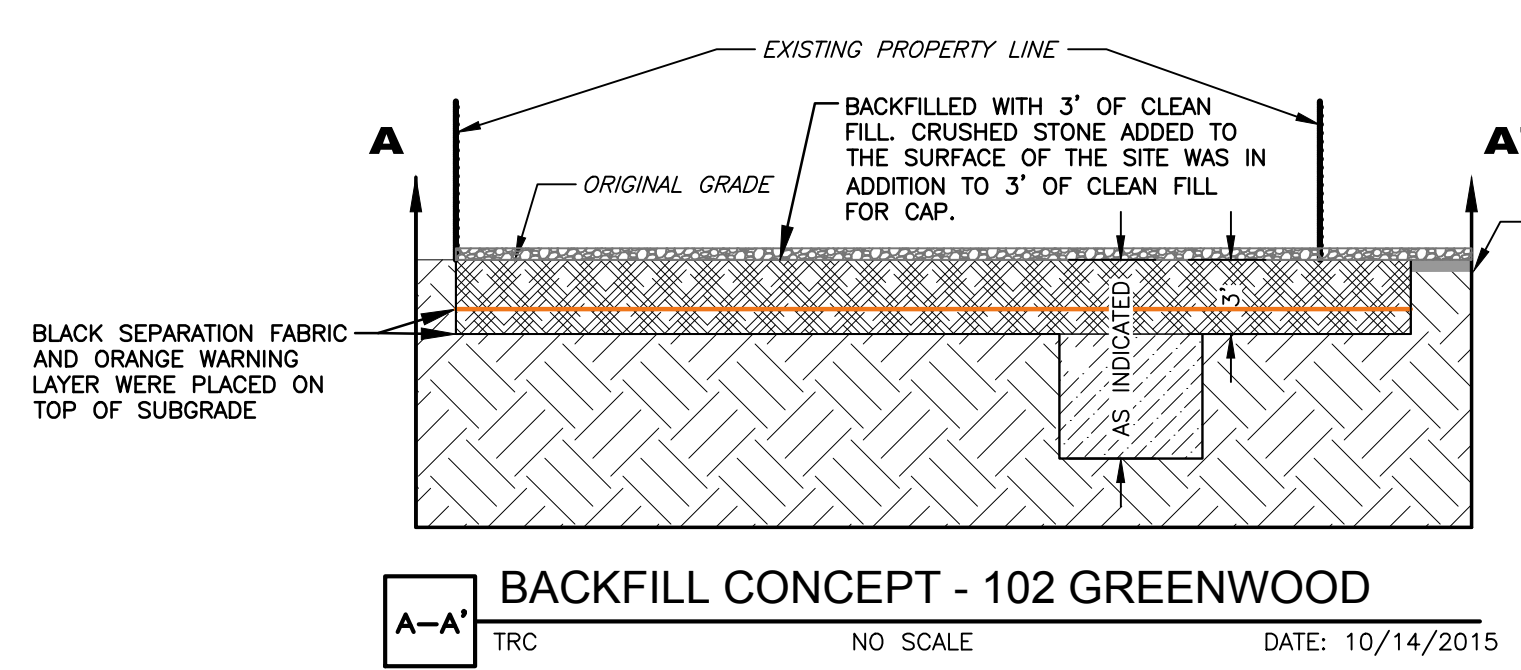
SEP 2015

FILE: \\Projects\115058 - New Bedford\VRP - RAM Completion Report (October 2015)\Figures\VRP - Final As-Built.dwg

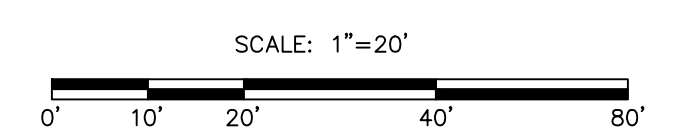


- LEGEND**
- 95.0 — AS-BUILT GRADE MAJOR CONTOUR (2.5')
 - 93.5 — AS-BUILT GRADE MINOR CONTOUR (0.5')
 - - - EXISTING PROPERTY LINE
 - EXISTING EDGE OF PAVEMENT
 - BOUNDARY OF SURVEY CONDUCTED BY CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE
 - TARGETED EXCAVATED AREA (CONTAINED PCB REMEDIATION WASTE SOILS WITH PCBs > 50 MG/KG)
 - ▨ AREA EXCAVATED TO 3 FEET BELOW GRADE (CONTAINED NON-PCB REMEDIATION WASTE SOILS WITH PCBs < 50 MG/KG)
 - ⊕ MW-34R MONITORING WELL
 - ⊕ TREE-1 16" TREE LEFT IN PLACE DURING SITE PREPARATION

- NOTES**
1. SITE WAS CAPPED BY A THREE-FOOT CLEAN EXPOSURE BARRIER CONSTRUCTED FROM IMPORTED FILL. CAP CONSTRUCTION DETAILS ARE SHOWN BELOW.
 2. TREE-3 WAS REMOVED AND DISPOSED OFF-SITE DURING RAM ACTIVITIES.

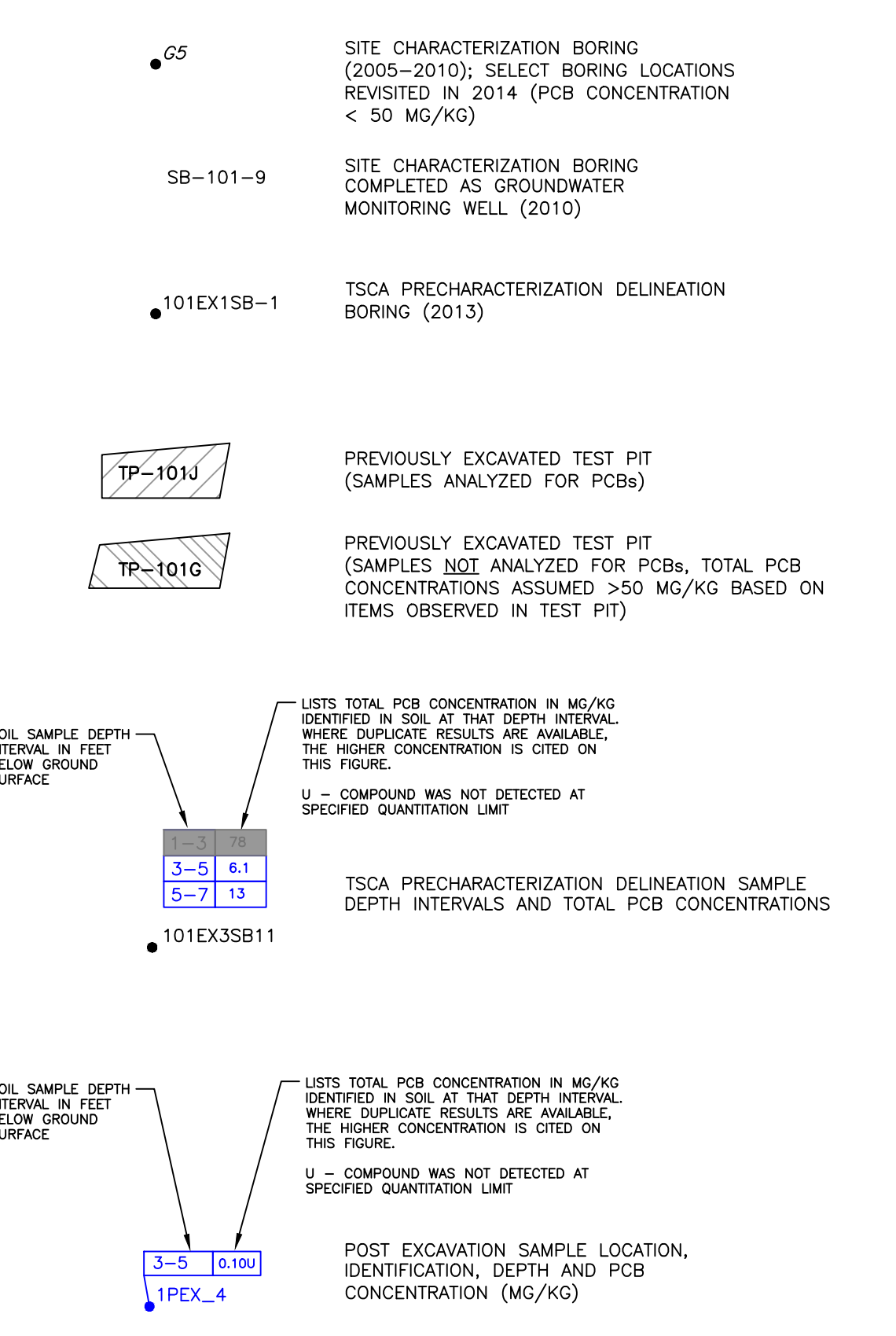
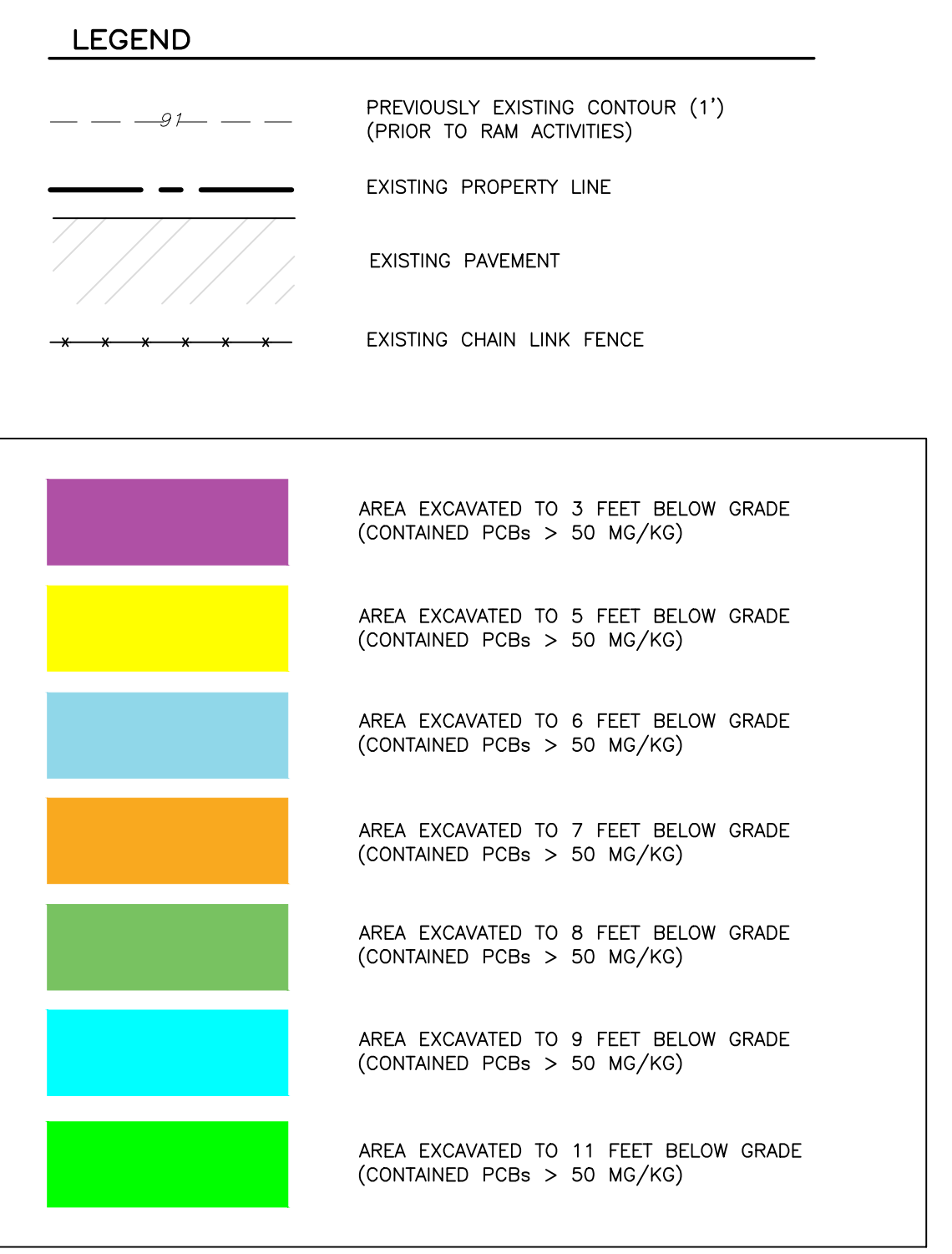


- NOTES:**
1. REMAINING IMPACTED SOILS WERE COVERED BY A MINIMUM OF 3' OF CLEAN FILL MATERIAL.
 2. A BLACK SEPARATION FABRIC WAS PLACED ON SUBGRADE SOILS PRIOR TO PLACEMENT OF CLEAN FILL MATERIAL.
 3. A 1' LAYER OF CLEAN SOIL WAS PLACED ON THE SEPARATION FABRIC FOLLOWED BY AN ORANGE WARNING LAYER.



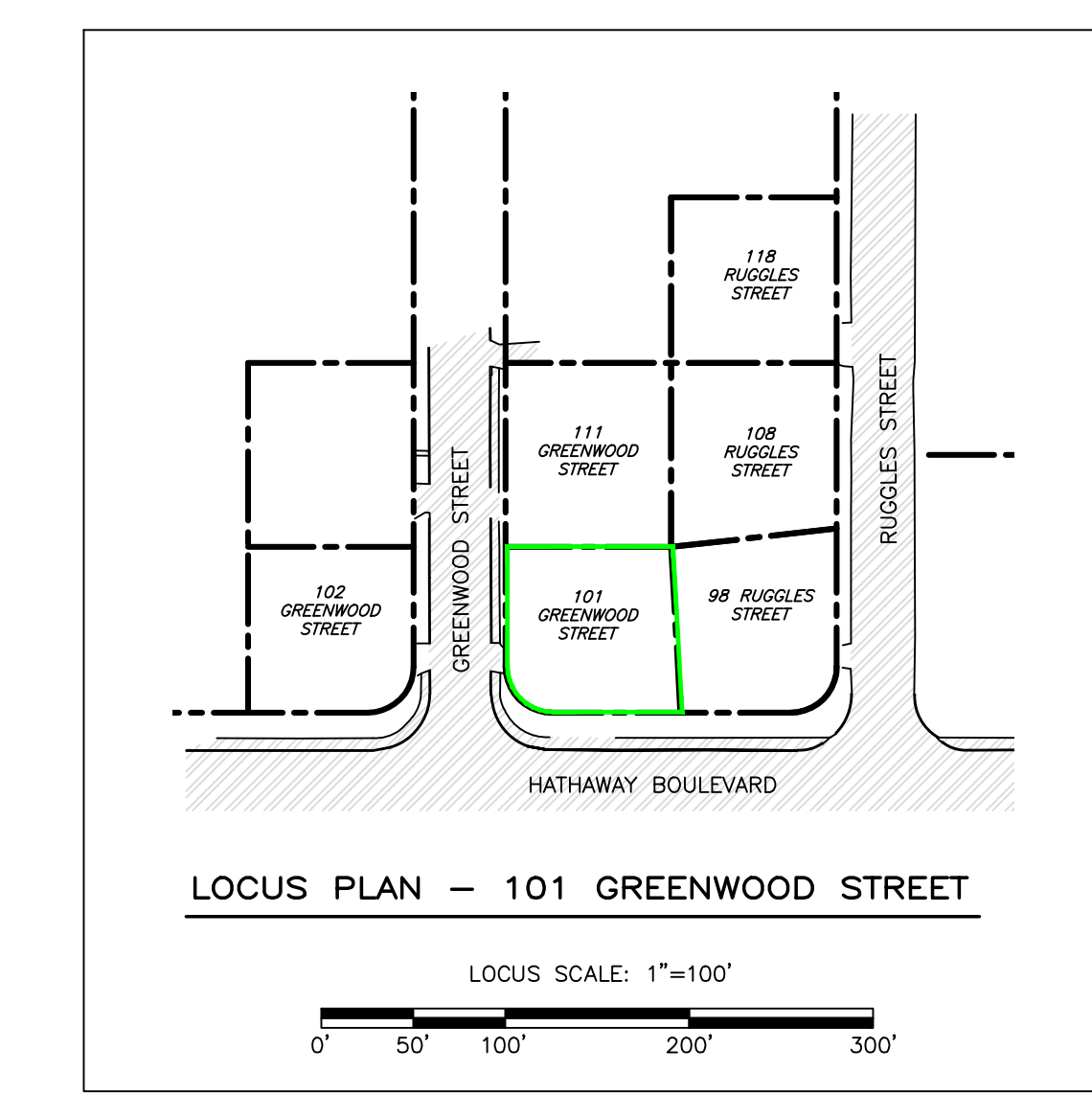
ACQUIRED RESIDENTIAL PROPERTIES NEW BEDFORD, MA	
SITE LAYOUT	
	Wannalancott Mills 650 Suffolk Street Lowell, MA 01854 (978) 970-5600
DRAWN BY: BJM	DATE: SEP 2015
CHECKED BY: MAO	
FIGURE 2	

101 GREENWOOD STREET



GRAY SHADING INDICATES SAMPLES/DEPTHS THAT HAVE BEEN EXCAVATED FOR OFF-SITE DISPOSAL.

- NOTES**
- ONLY SOIL BORING LOCATIONS WHERE PCB DATA WAS COLLECTED ARE SHOWN ON THIS FIGURE.
 - TOTAL PCB DATA FOR TEST PITS REPRESENTS ANALYTICAL RESULTS FROM A COMPOSITE SAMPLE COLLECTED FROM SOIL EXCAVATED WITHIN THE TEST PIT AREA AT THAT DEPTH. THIS DATA DOES NOT REPRESENT ANALYSIS OF A SINGLE LOCATION OR TEST PIT SIDEWALL.



101 GREENWOOD STREET (ACQ. RESIDENTIAL PROPERTIES) NEW BEDFORD, MA POST-EXCAVATION PCB RESULTS SUMMARY

Wonnolanct Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970-5600

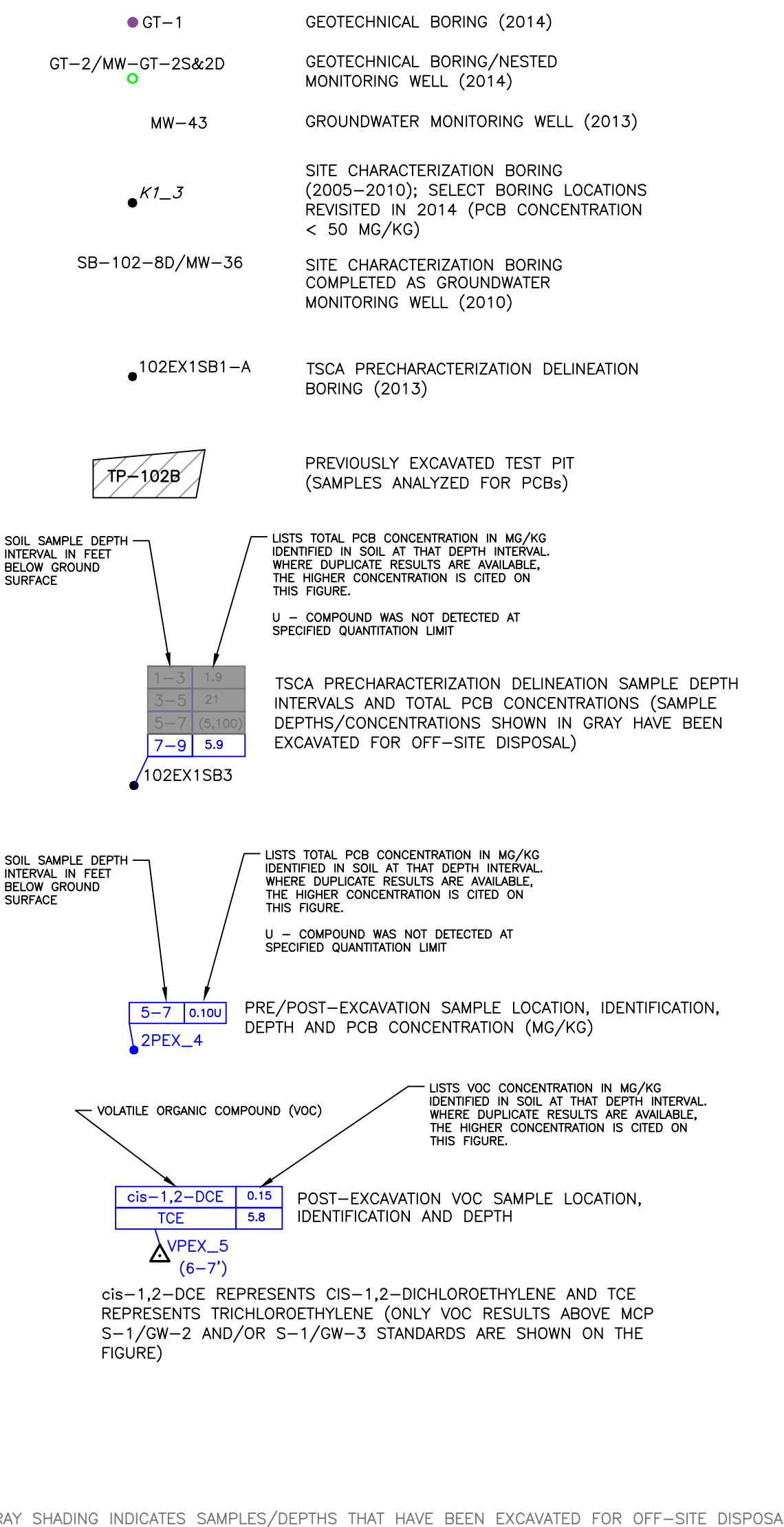
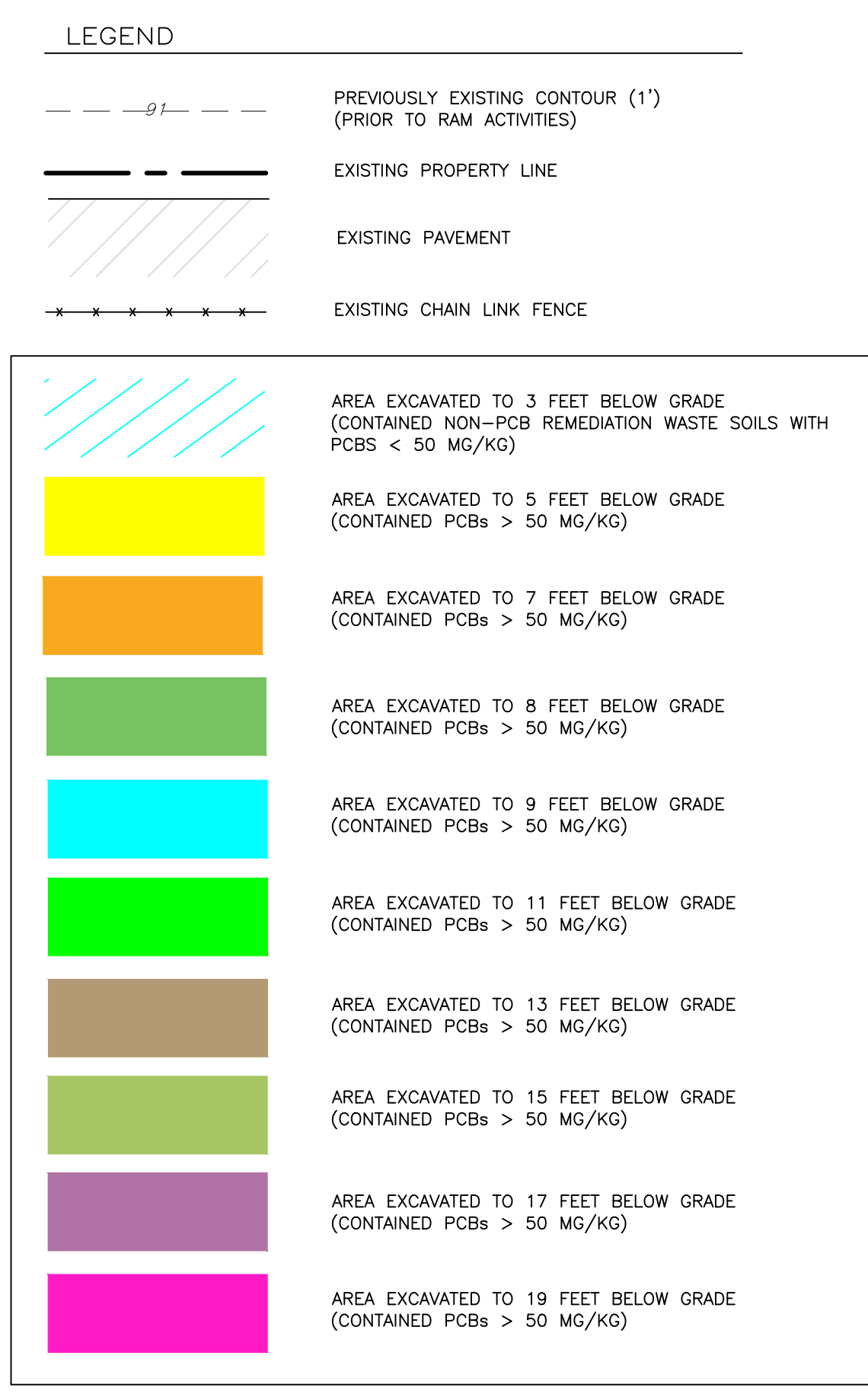
TRC

DRAWN BY: BJM DATE: APRIL 2015
CHECKED BY: MAO

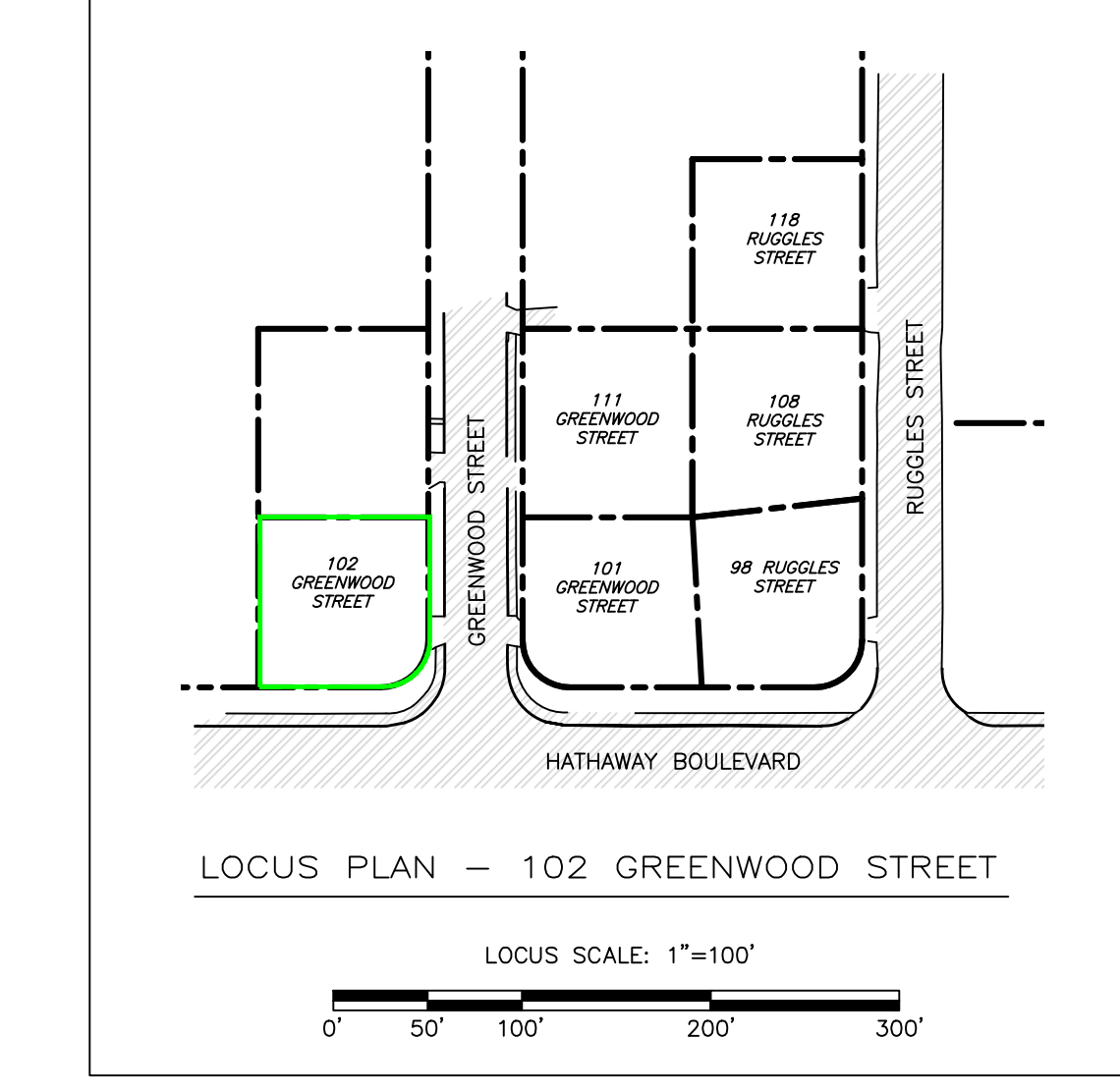
FIGURE 3

FILE: A:\Projects\115038 - New Bedford\MP - RM 2013-2015\Remedy\CA\MP - Post Ex Results.dwg

102 GREENWOOD STREET



- NOTES**
- ONLY SOIL BORING LOCATIONS WHERE PCB OR VOC DATA WERE COLLECTED ARE SHOWN ON THIS FIGURE.
 - TOTAL PCB DATA FOR TEST PIT TP102B REPRESENTS ANALYTICAL RESULTS FROM A COMPOSITE SAMPLE COLLECTED FROM SOIL EXCAVATED WITHIN THE TEST PIT AREA AT THAT DEPTH. THIS DATA DOES NOT REPRESENT ANALYSIS OF A SINGLE LOCATION OR TEST PIT SIDEWALL.



102 GREENWOOD STREET (ACQ. RESIDENTIAL PROPERTIES) NEW BEDFORD, MA

POST-EXCAVATION PCB AND VOC RESULTS SUMMARY

TRC Wonnacott Mills
 650 Suffolk Street
 Lowell, MA 01854
 (978) 970-5600

DRAWN BY: BJM DATE:
 CHECKED BY: MAO APRIL 2015

FIGURE 4

FILE: A:\Projects\115038 - RM 2013-2015 (Remedy)\CAD\WP - Post Ex Results.dwg

APPENDIX A
SITE PHOTOGRAPHS

Appendix A Site Photographs



Photo 1: Soil cover/cap installation over black geotextile layer.




Photo 2: Demarcation layer overlying compacted backfill and geotextile layer.



Photo 3: Soil cover prior to compaction.



Photo 4: Grading activities.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
115058	B. MacDonald, TRC	1 of 2	City of New Bedford	Acquired Residential Properties Greenwood Street and Ruggles Street New Bedford, MA	

Appendix A Site Photographs



Photo 5: Compacted and graded soil cover/cap at the five contiguous properties.




Photo 6: Compacted and graded soil cover/cap at 102 Greenwood Street.



Photo 7: Crushed stone cover installation activities.



Photo 8: Completed final grade soil cover/cap with crushed stone.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
115058	B. MacDonald, TRC	2 of 2	City of New Bedford	Acquired Residential Properties Greenwood Street and Ruggles Street New Bedford, MA	

APPENDIX B
BACKFILL MATERIAL STATEMENT



MEDEIROS & SONS CONSTRUCTION, INC.

December 4, 2014

TRC Senior Project Manager
650 Suffolk Street
Lowell MA 01854

RE: Sandy Fill Material available from Medeiros & Sons' Construction, Inc.

The Sandy Fill available at Medeiros & Sons' Construction, Inc. is from the same sources as the Sandy Fill sampled by the City of New Bedford on September 30, 2013

If any other information is needed please let us know.

Sincerely,

Robert Medeiros, President
Medeiros & Sons' Construction, Inc.

APPENDIX C
MONITORING WELL CONSTRUCTION LOGS



650 Suffolk Street
 Lowell, MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 115058/City of New Bedford **BORING/WELL NUMBER** MW-34R
TRC GEOLOGIST B. MacDonald **SCREEN TYPE/SLOT** 10-Slot (0.010-inch)
DRILLING CONTRACTOR/FOREMAN New England Geotech/Maynor **FILTER PACK TYPE** #1 Filter Sand
DATE DRILLED 5/20/2015 **SEAL TYPE** Bentonite
LOCATION Western limit of 118 Ruggles Street property **DEPTH TO WATER (Approximate Feet)** 12
SAMPLING METHOD 60" Macrocore **GROUND ELEVATION (Feet)** TBD
EXCAVATION METHOD Direct Push/7822 DT Geoprobe Track Rig **REFERENCE ELEVATION (Feet)** TBD
TOTAL DEPTH (Feet) 20
NOTES No soil samples were collected for analysis.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	PID (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
1	NA				0-30" Tan fine-to-medium SAND, little fine-to-coarse gravel.		NA	
2								
3		60/50	S-1		30-50" Black/brown organic SILT and PEAT, some gray ash.	0.0		
4								
5					0-6" Black/brown organic SILT and PEAT, some gray ash.			
6					6-14" Red-to-tan CLAY.			
7					14-54" Red-to-tan SILT and CLAY, moist.			
8		60/54	S-2			0.0		
9								
10					0-9" Red-to-tan SILT and CLAY, moist.			
11								
12					9-15" Brown PEAT, little fine sand, moist to wet.			
13		60/30	S-3		15-30" Tan fine SAND, some black tar, some coarse angular gravel, wet.	0.1		
14								
15					24" Tan fine SAND, some black tar, some coarse angular gravel, wet.			
16								
17								
18		60/24	S-4			0.0		
19								
20					End of Boring - Terminated at 20 feet.			



650 Suffolk Street
 Lowell, MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 115058/City of New Bedford BORING/WELL NUMBER MW-44R
 TRC GEOLOGIST B. MacDonald SCREEN TYPE/SLOT 10-Slot (0.010-inch)
 DRILLING CONTRACTOR/FOREMAN New England Geotech/Maynor FILTER PACK TYPE #1 Filter Sand
 DATE DRILLED 5/20/2015 SEAL TYPE Bentonite
 LOCATION Southern limit of 102 Greenwood Street property DEPTH TO WATER (Approximate Feet) 12
 SAMPLING METHOD 60" Macrocore GROUND ELEVATION (Feet) TBD
 DRILLING METHOD Direct Push/7822 DT Geoprobe Track Rig REFERENCE ELEVATION (Feet) TBD
 TOTAL DEPTH (Feet) 20
 NOTES No soil samples were collected for analysis.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
1	NA				0-22" Tan fine-to-medium SAND, little fine-to-coarse sub-rounded gravel.		NA	
2								
3		60/24	S-1			0.0		
4								
5					22-24" Fill and black coal ash, some red rust.			
6					0-4" Fill and black coal ash, some red rust.			
7					4-32" White to red/tan medium-to-fine SAND.			
8		60/32	S-2			0.0		
9								
10								
11					0-19" Tan, orange/brown mottled fine-to-coarse SAND with silt, some fine-to-coarse sub-angular to sub-rounded gravel, moist to wet.			
12					19-38" Tan SILT with fine sand, little fine-to-coarse sub-angular gravel, saturated.			
13		60/56	S-3			0.0		
14					38-54" Tan fine SAND, saturated.			
15					0-36" Tan fine SAND, saturated.			
16								
17								
18		60/36	S-4			0.0		
19								
20					End of Boring - Terminated at 20 feet.			



650 Suffolk Street
 Lowell, MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 115058/City of New Bedford **BORING/WELL NUMBER** MW-46
TRC GEOLOGIST B. MacDonald **SCREEN TYPE/SLOT** 10-Slot (0.010-inch)
DRILLING CONTRACTOR/FOREMAN New England Geotech/Maynor **FILTER PACK TYPE** #1 Filter Sand
DATE DRILLED 5/20/2015 **SEAL TYPE** Bentonite
LOCATION Center of former TSCA area at 102 Greenwood Street **DEPTH TO WATER (Approximate Feet)** 13.25
SAMPLING METHOD 60" Macrocore **GROUND ELEVATION (Feet)** TBD
DRILLING METHOD Direct Push/7822 DT Geoprobe Track Rig **REFERENCE ELEVATION (Feet)** TBD
TOTAL DEPTH (Feet) 20
NOTES No soil samples were collected for analysis.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1	NA				0-39" Tan fine to medium SAND, little fine-to-coarse gravel.		NA	
2								
3		60/48	S-1			0.0		
4					39-48" Tan to brown fine to medium SAND, little medium sub-angular gravel.			
5					0-12" Tan to brown fine to medium SAND, little medium sub-angular gravel.			
6								
7								
8		60/24	S-2		12-24" Brown PEAT and SILT, some poorly graded tan-to-gray/red medium-to-coarse sand, little coarse angular gravel.	0.0		
9								
10								
11					0-8" Brown PEAT and SILT, some poorly graded tan-to-gray/red medium-to-coarse sand, little coarse angular gravel.			
12					8-20" Brown-to-gray medium-to-fine SAND and SILT, moist.			
13		60/30	S-3			0.0		
14					20-26" Brown-to-black fine SAND, some coarse rounded gravel, wet.			
15					26-30" Tan medium SAND, some coarse sub-rounded gravel, wet, slight sheen.	0.0		
16					0-28" Tan medium SAND, some coarse sub-rounded gravel, wet, slight sheen.			
17								
18		60/28	S-4			0.0		
19								
20					End of Boring - Terminated at 20 feet.			



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BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 115058/City of New Bedford **BORING/WELL NUMBER** MW-47
TRC GEOLOGIST B. MacDonald **SCREEN TYPE/SLOT** 10-Slot (0.010-inch)
DRILLING CONTRACTOR/FOREMAN New England Geotech/Maynor **FILTER PACK TYPE** #1 Filter Sand
DATE DRILLED 5/20/2015 **SEAL TYPE** Bentonite
LOCATION Center of former TSCA area at 101 Greenwood Street **DEPTH TO WATER (Approximate Feet)** 12.5
SAMPLING METHOD 60" Macrocore **GROUND ELEVATION (Feet)** TBD
DRILLING METHOD Direct Push/7822 DT Geoprobe Track Rig **REFERENCE ELEVATION (Feet)** TBD
TOTAL DEPTH (Feet) 23
NOTES No soil samples were collected for analysis.

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/ TIME	WELL DIAGRAM
1	NA				0-4" Tan fine to medium SAND. 4-6" White fine SAND. 6-15" Tan fine SAND, some red clay, little black ash.		NA	Concrete Roadbox (0-1')
2								
3		60/35	S-1		15-29" Tan fine to medium SAND.	0.0		
4								
5					29-35" Brown organic PEAT, some silt, little black ash.			
6					0-6" Tan fine to medium SAND.			#1 Filter Sand (1-10') Schedule 40 2" PVC Riser (0-12')
7					6-32" Brown organic PEAT and SILT, moist, little tan fine-to-medium sand.			
8		60/32	S-2			0.0		
9								
10					0-18" Brown organic PEAT and SILT, moist, little tan fine-to-medium sand.			Bentonite (10-11')
11								#1 Filter Sand (11-22')
12								
13		60/36	S-3		18-23" Black organic PEAT, moist to wet. 23-36" Gray fine to medium SAND, wet.	0.0		
14								
15					0-36" Gray fine to medium SAND, wet.			
16								
17								
18		60/36	S-4			0.0		Schedule 40 2" PVC (10-Slot) Screen (12-22')
19								
20					0-21" Gray fine to medium SAND, wet.			
21								
22		36/21	S-5			0.0		
23					End of Boring - Terminated at 23 feet.			

APPENDIX D

GROUNDWATER SAMPLING FORMS

TRC Field Instrument Calibration Log

Date: 8/31/15

Site Name: ARP

Water Quality Instrument Type / ID: YSI 650 MDS / 0300903AD

Turbidity Instrument Type / ID: Hach 2100 Q / 11090C013069

Date of Last Temperature Probe Check: 8/28/15

Dissolved Oxygen (DO)

Time	Barometric Pressure (mm Hg)	Temperature (°Celsius)	Oxygen Solubility at Indicated Pressure (mg/L) (On Instrument)	Actual Oxygen Solubility at Indicated Pressure (mg/L) (Refer to Attachment A)	Zero DO Check (mg/L)	Comments	Initials	Acceptable Range
9:38	754.6	25.0	8.18	8.29	0.001		BJM	+/- 0.2 mg/L of measurements indicated on Attachment A. Zero DO -0.5 to +0.5 mg/L

pH

Time	Solution Temperature (°Celsius)	pH 7	pH 4	pH 10	pH 7 Check (acceptable range: 6.9 to 7.1 SU)	Comments	Initials
9:18	25.5	7.00	4.00	4.98	7.03		BJM

Specific Conductance

Time	Specific Conductance Reading (umhos/cm3)	Comments	Initials	Acceptable Range
9:10	1001		BJM	+/- 5% of 1,413 umhos/cm

Oxidation Reduction Potential (ORP)

Time	Solution Temperature (°Celsius)	ORP Reading (mV) (Refer to std instruction sheet)	Actual ORP Reading (mV) (On Instrument)	Comments	Initials	Acceptable Range
9:28	25.0	231 → 963	97.0		BJM	Unchanged within manufacturer's specifications (refer to std instruction sheet)

Turbidity 10 NTU 100 NTU 800 NTU

Time	Zero Standard	Standard #1 (20 NTUs)	Standard #2 (100 NTUs)	Comments	Initials	Acceptable Range
9:30	9.48	101	785		BJM	+/-10% of 10.0 NTU Standard

Calibration Fluid ID / Expiration Date:

Zero DO: C05755E

pH 4: 4A1940 / Sep 16

ORP: 56F472 / Dec 15

Zero Turbidity: A4253 / Dec 15

10 NTU

Signed: Belgian

Specific Conductance: 56F184 / Jun 16

pH 7: 5A0529 / Apr 17

pH 10: 4A1172 / Dec 16

20 NTU Turbidity Std. # 1: A5085 / Jun 16

100 NTU Turbidity Std. # 2: A4254 / Dec 15

800 NTU Turbidity Std. # 3: A4254 / Dec 15

Signed: Belgian M. J. ...



Groundwater Field Data Record

Project: ARP Project No.: 115058 Date/Time: 8/31/15 10:40 Sheet 1 of 2

TRC Personnel: Bryan MacDonald Well ID: MW-348

WELL INTEGRITY

Table with columns YES/NO for Protect. Casing Secure, Concrete Collar Intact, PVC Stick-up Intact, Well Cap Present, Security Lock Present.

Protective Casing Stick-up (from ground) NA ft. Riser Stick-up (from ground) NA ft.

Well Depth 20 ft. top of riser [checked] top of casing [checked] measured [checked] historical [checked]

Water Depth 12.54 ft. LNAPL/DNAPL Depth = NA Well Volume 1.22 gal NAPL Thickness = NA

WELL DIAMETER [checked] 2 inch [] 4 inch [] 6 inch Other: []

Depth of pump intake: 16.3' Static water level after pump put into well: 12.20'

Sampling Equipment: 0.45 micron filter

Flow-thru Cell Volume: 300 mL

Initial purge Rate/Water Level (100-400 ml/min): 175 ml/min

PID SCREENING MEAS.

Table with columns Background, Well Mouth and checkboxes.

WELL MATERIAL

[checked] PVC [] SS Other: []

Adjusted purge Rates/time/WL(record changes) 100 ml/min 11:25 draw=14.12

Flow rate at time of sampling: 100 ml/min

Total volume of water purged: 12.4 L

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Table with columns Time (11:20-12:00) and rows for Temp, Conduct, DO, pH, ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.

Table with columns Time (12:05-12:30) and rows for Temp, Conduct, DO, pH, Eh/ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol. Includes Stabilization Criteria.

Purge Sample Comments: Peristaltic Pump [], Submersible Pump [], Bladder Pump [checked], Bailer [checked], Other: [] QED 1 3/4" SS bladder pump, QED MP10 controller, QED well wizard 3020 compressor, YSI 650 MDS, Hach 200Q, Selinst WLM 101

Table with columns Analytical Parameter, Filtered (Y/N), Preservation, # Bottles, Size/Type Bottles, Time Collected, QC, Sample #. Rows include VOLs, Metals (Total), Metals (Diss.), PAH.

Consult the applicable regulatory guidance for the specific criteria. Signed: Bryan MacDonald Rev: April 2014

PCB N Act 1 1L/A 13:20



Groundwater Field Data Record

Project: ARP Project No.: 115058 Date/Time: 8/31/15 10:40 Sheet 2 of 2

TRC Personnel: Bryan MacDonald Well ID: MW-34R

WELL INTEGRITY table with YES/NO columns for Protect. Casing Secure, Concrete Collar Intact, PVC Stick-up Intact, Well Cap Present, Security Lock Present.

Sampling Equipment: Flow-thru Cell Volume: 300 ml

PID SCREENING MEAS. table with Background and Well Mouth rows.

Protective Casing Stick-up (from ground) Riser Stick-up (from ground) WELL DIAMETER 2 inch 4 inch 6 inch Other:

WELL MATERIAL PVC SS Other:

Well Depth 20 ft. top of riser top of casing measured historical Water Depth 12.54 ft. LNAPL/DNAPL Depth = Well Volume 1.22 NAPL Thickness = Depth of pump intake: 18.3' Static water level after pump put into well: 12.20' Initial purge Rate/ Water Level (100-400 ml/min): 175 ml/min Adjusted purge Rates/time/WL(record changes) 100 ml/min / 11:25 / DTW=14.12 Flow rate at time of sampling: 100 Total volume of water purged:

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals) 143 NTU

Table with 10 columns for Time (12:35 to 13:15) and rows for Temp, Conduct, DO, pH, ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.

Table for Stabilization Criteria* (3 consecutive readings) with rows for Temp, Conduct, DO, pH, Eh/ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.

Table for Purge and Sample methods with rows for Peristaltic Pump, Submersible Pump, Bladder Pump, Bailor, Other.

Table for Analytical Parameters with columns for Filtered (Y/N), Preservation, # Bottles, Size/Type Bottles, Time Collected, QC, Sample #.

Consult the applicable regulatory guidance for the specific criteria. Signed: PCBs N - 1 12/1A Rev: April 2014



Groundwater Field Data Record

Project: ARP Project No.: 115058 Date/Time: 8/31/15 14:00 Sheet 1 of 1

TRC Personnel: Bryan McDonald Well ID: MW-43

WELL INTEGRITY table with columns YES/NO and rows for casing secure, collar intact, PVC stick-up, well cap, and security lock.

Protective Casing Stick-up (from ground) NA ft. Riser Stick-up (from ground) NA ft.

Well Depth 19 ft. top of riser [checked] top of casing [checked] measured [checked] historical [checked]

Water Depth 11.17 ft. LNAPL/DNAPL Depth = NA Well Volume 1.27 m³ LNAPL Thickness = NA

Sampling Equipment: 0.45 micron filter Flow-thru Cell Volume: 300 ml

WELL DIAMETER [checked] 2 inch [] 4 inch [] 6 inch

Depth of pump intake: 15.1' Static water level after pump put into well: 11.14'

Initial purge Rate/ Water Level (100-400 ml/min): 150 Adjusted purge Rates/time/WL(record changes)

PID SCREENING MEAS. table with rows for Background and Well Mouth.

WELL MATERIAL [checked] PVC [] SS Other: []

Flow rate at time of sampling: 150 ml/min Total volume of water purged: 8.25 L

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Table with 10 columns (Time, Temp, Conduct, DO, pH, ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.) and 10 rows of data from 14:20 to 15:00.

Table with 10 columns (Time, Temp, Conduct, DO, pH, Eh/ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.) and 10 rows of data from 15:05 to 15:15, including stabilization criteria.

Purge/Sample checkboxes for Peristaltic Pump, Submersible Pump, Bladder Pump, Bailer, and Other. Comments: QED 1 3/4" SS bladder pump, QED MP10 controller, QED well upward 3000 compressor, YSI 650 MDS, Hoch 2100Q, Solinst WLM

Table with 8 columns (Analytical Parameter, Filtered (Y/N), Preservation, # Bottles, Size/Type Bottles, Time Collected, QC, Sample #) and 4 rows of data for VOCs, Pesticide Metals, Diss. Metals, and PAH.

Consult the applicable regulatory guidance for the specific criteria. Signed: Bryan McDonald Rev: April 2014 PCB N - i ll A 15:15



Groundwater Field Data Record

Project: ARP Project No.: 115058 Date/Time: 8/31/15 16:20 Sheet 1 of 2

TRC Personnel: Bryan MacDonald Well ID: MW-44R

WELL INTEGRITY table with checkboxes for Protect. Casing Secure, Concrete Collar Intact, PVC Stick-up Intact, Well Cap Present, Security Lock Present.

Protective Casing Stick-up NA ft. Well Depth 20 ft. top of riser [checked] top of casing [checked] measured [checked] historical [checked]

Sampling Equipment: 0.45 micron filter Flow-thru Cell Volume: 300ml

Water Depth 11.03 ft. LNAPL/DNAPL Depth = NA Well Volume 1.47 gal. NAPL Thickness = NA

PID SCREENING MEAS. table with Background and Well Mouth rows.

WELL DIAMETER [checked] 2 inch Other: [] 4 inch [] 6 inch WELL MATERIAL [checked] PVC [] SS

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Table with 10 columns (Time, Temp, Conduct, DO, pH, ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.) and 10 rows of data.

Table with 7 columns (Time, Temp, Conduct, DO, pH, Eh/ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.) and 7 rows of data, including Stabilization Criteria.

Purge Sample Comments: QED 1 3/4" SS bladder pump, QED MP10 controller, QED well wizard 3020 compressor, YSI 650 MPS, Tech 2100A, solinst WLM

Table with 8 columns (Analytical Parameter, Filtered (Y/N), Preservation, # Bottles, Size/Type Bottles, Time Collected, QC, Sample #) and 4 rows of data.

PCB N - 1 1LA 18:50 Signed: Bryan MacDonald Rev: April 2014



Groundwater Field Data Record

Project: AR1 Project No.: 115058 Date/Time: 8/31/15 16:20 Sheet 2 of 2

TRC Personnel: Bryan MacDonald Well ID: MW-44R

WELL INTEGRITY table with checkboxes for Protect. Casing Secure, Concrete Collar Intact, PVC Stick-up Intact, Well Cap Present, Security Lock Present.

Protective Casing Stick-up (from ground) _____ ft. Riser Stick-up (from ground) _____ ft.

Well Depth _____ ft. top of riser _____ measured top of casing _____ historical Water Depth _____ ft. LNAPL/DNAPL Depth = _____ Well Volume _____ NAPL Thickness = _____

Sampling Equipment: _____ Flow-thru Cell Volume: _____

WELL DIAMETER 2 inch 4 inch 6 inch Other: _____

Depth of pump intake: _____ Static water level after pump put into well: _____ Initial purge Rate/ Water Level (100-400 ml/min): _____ Adjusted purge Rates/time/WL(record changes) _____

PID SCREENING MEAS. Background _____ Well Mouth _____

WELL MATERIAL PVC SS Other: _____

Flow rate at time of sampling: 100 Total volume of water purged: _____

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Table with 10 columns (Time, Temp, Conduct, DO, pH, ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.) and 10 rows of data from 18:05 to 18:45.

Table for Stabilization Criteria* (3 consecutive readings) with 10 columns (Time, Temp, Conduct, DO, pH, Eh/ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.) and 10 rows of data from 18:50 to 19:00.

Purge Sample Comments: Peristaltic Pump, Submersible Pump, Bladder Pump, Bailer, Other: see sheet 1

Table with 8 columns: Analytical Parameter, Filtered (Y/N), Preservation, # Bottles, Size/Type Bottles, Time Collected, QC, Sample #

TRC Field Instrument Calibration Log

Date: 9/1/15 Site Name: ARP

Water Quality Instrument Type / ID: YSI 650 MDS / 03D0903 AD

Turbidity Instrument Type / ID: HACH 2100 Q / 11090C013069

Date of Last Temperature Probe Check: 8/28/15

Dissolved Oxygen (DO)

Time	Barometric Pressure (mm Hg)	Temperature (°Celsius)	Oxygen Solubility at Indicated Pressure (mg/L) (On Instrument)	Actual Oxygen Solubility at Indicated Pressure (mg/L) (Refer to Attachment A)	Zero DO Check (mg/L)	Comments	Initials
7:20	752.9	21°	8.80	8.79	0.001		BTM

pH

Time	Solution Temperature (°Celsius)	pH 7	pH 4	pH 10	pH 7 Check	Comments	Initials
7:28	23.2	7.00	4.00	9.99	7.04		BTM

Specific Conductance

Time	Specific Conductance Reading (umhos/cm3)	Comments	Initials
7:45	1000		BTM

Oxidation Reduction Potential (ORP)

Time	Solution Temperature (°Celsius)	ORP Reading (mV) (Refer to std instruction sheet)	Actual ORP Reading (mV) (On Instrument)	Comments	Initials
7:47	20°	240 → 200	100.0		BTM

Turbidity 10 NTU

Time	Zero Standard	Standard #1 (20 NTUs)	Standard #2 (100 NTUs)	Comments	Initials
7:51	10.2	21.4	99.8		BTM

Calibration Fluid ID / Expiration Date:

Zero DO: LO5755E Specific Conductance: 56F184 / Jun 16
 pH 4: 4A1940 / Sep 16 pH 7: 5A0829 / Apr 17 pH 10: 4A2172 / Dec 16
 ORP: 56F472 / Dec 15
 Zero Turbidity: AU253 Turbidity Std. # 1: 20 NTU 100 NTU 100 NTU Turbidity Std. # 2: AU254 / Dec 15
10 NTU Dec 15

Signed: [Signature]



Groundwater Field Data Record

Project: ARP Project No.: 45058 Date/Time: 9/1/15
8:00 Sheet 1 of 1

TRC Personnel: Bryan MacDonald Well ID: MW-47

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up (from ground) NA ft. Well Depth 22 ft. top of riser measured
 top of casing historical

Riser Stick-up (from ground) NA ft. Water Depth 14.11 ft. LNAPL/DNAPL Depth = NA
 Well Volume 1.24 gal DNAPL Thickness = NA

Sampling Equipment: 0.45 micron filter

WELL DIAMETER 2 inch 4 inch 6 inch

Flow-thru Cell Volume: 200 ml

Depth of pump intake: 18.1'
 Static water level after pump put into well: 14.16

PID SCREENING MEAS.

Background	<u>—</u>
Well Mouth	<u>—</u>

WELL MATERIAL PVC SS

Initial purge Rate/ Water Level (100-400 ml/min): 150 mL/min / 14.22'
 Adjusted purge Rates/time/WL (record changes) NA
 Flow rate at time of sampling: 150 mL/min
 Total volume of water purged: 8.25 L

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Time	8:20	8:25	8:30	8:35	8:40	8:45	8:50	8:55	9:00
Temp. (°C)	15.65	14.10	13.87	13.72	13.79	13.73	13.86	13.91	13.91
Conduct. (µmhos/cm)	977	967	936	920	915	905	902	897	897
DO (mg/L)	1.06	0.50	0.52	0.53	0.55	0.57	0.55	0.64	0.60
pH (su)	6.53	6.51	6.52	6.53	6.52	6.53	6.53	6.52	6.47
ORP (millivolts)	129.0	138.5	147.7	149.5	149.4	150.6	151.7	152.7	157.9
Turbidity (NTU)	119	65.0	68.0	50.6	43.9	41.9	34.0	29.7	27.3
Flow (ml/min)	150	150	150	150	150	150	150	150	150
Depth To Water (ft)	14.22	14.21	14.20	14.21	14.23	14.22	14.23	14.22	14.22
Cumulative Purge Vol. (gal or L)	—	0.75	1.5	2.25	3.0	3.75	4.5	5.25	6.0

Time	9:05	9:10	9:15						
Temp. (°C)	13.88	13.98	14.20						
Conduct. (µmhos/cm)	892	891	892						
DO (mg/L)	0.64	0.54	0.60						
pH (Std. Units)	6.35	6.29	6.27						
Eh/ORP (millivolts)	169.0	173.2	173.1						
Turbidity (NTU)	23.5	22.6	21.7						
Flow (ml/min)	150	150	150						
Depth To Water (ft)	14.22	14.23	14.22						
Cumulative Purge Vol. (gal or L)	6.75	7.5	8.25						

Stabilization Criteria* (3 consecutive readings)
 - Temperature: ± 3 %
 - Conduct. (µmhos/cm): ± 3 %
 - DO (mg/L): ± 10 % (for values >0.5 mg/L)
 - pH (Std. Units): ± 0.1 SU
 - ORP (millivolts): ± 10 mV
 - Turbidity (NTU): +/- 10 % (for values >5.0 NTUs)
 - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

Purge Sample Comments:
 Peristaltic Pump
 Submersible Pump
 Bladder Pump
 Bailer
 Other: QED 130" SS bladder pump, QED MP10 controller, QED well wizard 3020 compressor, YSI 850 MDS, Mach 2100A, solvent WLM

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #
VOCs	N	HCl	3	40 mL/Voa	9:15	TB	
PAHs	N	—	1	1L/A	9:15		
PCBs	N	—	1	1L/A	9:15		
PCBs (filtered)	Y	—	1	1L/A	9:15		

• Consult the applicable regulatory guidance for the specific criteria.
 Signed: Bryan MacDonald Rev: April 2014
 Total Metals N HNO₃ 1 250 mL/P 9:15
 Dissolved Metals Y HNO₃ 1 250 mL/P 9:15



Groundwater Field Data Record

Project: ARP Project No.: 115058 Date/Time: 9/1/15 10:15 Sheet 1 of 1

TRC Personnel: Bryan MacDonald Well ID: MW-45

WELL INTEGRITY

Table with columns YES/NO for Protect. Casing Secure, Concrete Collar Intact, PVC Stick-up Intact, Well Cap Present, Security Lock Present.

Sampling Equipment: 0.45 micron filtered

Flow-thru Cell Volume: 300ml

PID SCREENING MEAS.

Table with Background and Well Mouth rows and checkboxes.

Protective Casing Stick-up (from ground) NA ft. Riser Stick-up (from ground) NA ft.

WELL DIAMETER 2 inch Other: 4 inch 6 inch

WELL MATERIAL

WELL MATERIAL PVC SS Other:

Well Depth 19 ft. top of riser top of casing measured historical

Water Depth 11.49 ft. LNAPL/DNAPL Depth = NA Well Volume 122481 NAPL Thickness = NA

Depth of pump intake: 15.3' Static water level after pump put into well: 11.10'

Initial purge Rate/ Water Level (100-400 ml/min): 100 ml/min / 11.75' Adjusted purge Rates/time/WL(record changes)

Flow rate at time of sampling: 100 ml/min Total volume of water purged: 5.0L

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Table with columns Time (10:40-11:20) and rows for Temp, Conduct, DO, pH, ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol.

Table with columns Time (11:25-11:30) and rows for Temp, Conduct, DO, pH, Eh/ORP, Turbidity, Flow, Depth To Water, Cumulative Purge Vol. Includes Stabilization Criteria on the right.

Purge Sample Comments: QED 13m" SS bladder pump, QED MP10 controller, QED well wizard 3020 compressor, YSI 650 ADS, Bach 2100Q, Solinst WLM

Table with columns Analytical Parameter, Filtered (Y/N), Preservation, # Bottles, Size/Type Bottles, Time Collected, QC, Sample #. Rows include VOCs, Total Metals, Diss. Metals, PAH, PCB.

Consult the applicable regulatory guidance for the specific criteria. Signed: Bryan MacDonald Rev: April 2014



Groundwater Field Data Record

Project: ARP Project No.: 115058 Date/Time: 9/1/15
12:40 Sheet 1 of 1

TRC Personnel: Bryan MacDonald Well ID: MW-46

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up (from ground) NA ft.
 Riser Stick-up (from ground) NA ft.

Well Depth 20 ft. top of riser measured
 top of casing historical
 Water Depth 10.70 ft. LNAPL/DNAPL Depth = NA
 Well Volume 1.62 gal DNAPL Thickness = NA

Sampling Equipment: 0.45 micron filter
 Flow-thru Cell Volume: 300 mL

WELL DIAMETER 2 inch
 4 inch
 6 inch
 Other: _____

Depth of pump intake: 15.4'
 Static water level after pump put into well: 10.65'

PID SCREENING MEAS.

Background	<u>-</u>
Well Mouth	<u>-</u>

WELL MATERIAL
 PVC SS
 Other: _____

Initial purge Rate/ Water Level (100-400 ml/min): 175 ml/min / stable at 10.85'
 Adjusted purge Rates/time/WL (record changes)
NA
 Flow rate at time of sampling: 175 mL/min
 Total volume of water purged: 7.0 L

FIELD WATER QUALITY MEASUREMENTS (record at appropriate intervals)

Time	12:45	12:50	12:55	13:00	13:05	13:10	13:15	13:20	13:25
Temp. (°C)	21.62	16.94	15.38	15.22	15.04	15.04	15.10	15.10	14.87
Conduct. (µmhos/cm)	660	623	531	478	465	454	453	449	446
DO (mg/L)	0.61	0.17	0.19	0.17	0.17	0.16	0.14	0.14	0.14
pH (su)	6.54	6.06	5.87	5.79	5.75	5.63	5.67	5.68	5.73
ORP (millivolts)	239.9	241.5	119.7	118.0	124.3	135.7	138.9	141.4	142.0
Turbidity (NTU)	171	121	58.2	41.0	31.1	20.5	14.0	15.3	14.4
Flow (ml/min)	175	175	175	175	175	175	175	175	175
Depth To Water (ft)	10.79	10.86	10.87	10.89	10.89	10.90	10.89	10.91	10.91
Cumulative Purge Vol. (gal or L)	—	0.875	1.75	2.63	3.5	4.4	5.25	6.13	7.0

Time									
Temp. (°C)									
Conduct. (µmhos/cm)									
DO (mg/L)									
pH (Std. Units)									
Eh/ORP (millivolts)									
Turbidity (NTU)									
Flow (ml/min)									
Depth To Water (ft)									
Cumulative Purge Vol. (gal or L)									

Stabilization Criteria* (3 consecutive readings)
 - Temperature: ± 3 %
 - Conduct. (µmhos/cm): ± 3 %
 - DO (mg/L): ± 10 % (for values > 0.5 mg/L)
 - pH (Std. Units): ± 0.1 SU
 - ORP (millivolts): ± 10 mV
 - Turbidity (NTU): ± 10 % (for values > 5.0 NTUs)
 - Drawdown: < 0.3 ft (can be greater as long as water level stabilizes above well screen)

	Purge	Sample	Comments:
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	QED 1 3/4" SS bladder pump, QED MP10 controller
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>	QED well wizard 3020 compressor, Y51
Bladder Pump	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	650 MDS, Hach 2100A, solvent WLM, duplicate taken from MW-46
Bailer	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	

Analytical Parameter	Filtered (Y/N)	Preservation	# Bottles	Size/Type Bottles	Time Collected	QC	Sample #
VOCs	N	HCl	6	40 mL WA	13:25	TB	
Metals (Total)	N	HNO3	2	250 mL P	13:25		
Metals (Diss.)	Y	HNO3	2	250 mL P	13:25		
PAH	N	—	4	1L A	13:25		

Consult the applicable regulatory guidance for the specific criteria. Signed: Bryan MacDonald Rev. April 2014

PCB	N	—	4	1L A	13:25		
PCB	Y	—	4	1L A	13:25		

APPENDIX E
LABORATORY REPORTS

April 16, 2015

David Sullivan
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: ARP New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 15D0401

Enclosed are results of analyses for samples received by the laboratory on April 8, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping 'y' at the end.

Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
 650 Suffolk Street
 Lowell, MA 01852
 ATTN: David Sullivan

REPORT DATE: 4/16/2015

PURCHASE ORDER NUMBER: 79574

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15D0401

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: ARP New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TREE-1 (0-3')	15D0401-01	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	
TREE-2 (0-3')	15D0401-02	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	
TREE-3 (0-3')	15D0401-03	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	
TREE-4 (0-3')	15D0401-04	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	
TREE-5 (0-3')	15D0401-05	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

For inorganic analysis, client did not specify sample QA/QC per MCP.

For method 8270, only PAHs were requested and reported.

SW-846 8082A**Qualifications:****O-32**

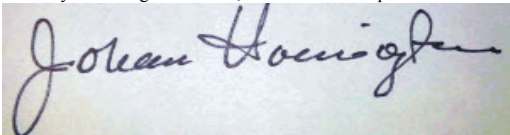
A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

15D0401-03[TREE-3 (0-3')], 15D0401-04[TREE-4 (0-3')]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Johanna K. Harrington
Manager, Laboratory Reporting

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-1 (0-3')

Sampled: 4/8/2015 08:50

Sample ID: 15D0401-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:04	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		66.9	30-130					4/15/15 11:04	
2-Fluorobiphenyl		73.3	30-130					4/15/15 11:04	
p-Terphenyl-d14		80.1	30-130					4/15/15 11:04	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-1 (0-3')

Sampled: 4/8/2015 08:50

Sample ID: 15D0401-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1254 [1]	0.34	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:00	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.1	30-150					4/14/15 17:00	
Decachlorobiphenyl [2]		73.2	30-150					4/14/15 17:00	
Tetrachloro-m-xylene [1]		71.3	30-150					4/14/15 17:00	
Tetrachloro-m-xylene [2]		76.2	30-150					4/14/15 17:00	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-1 (0-3')

Sampled: 4/8/2015 08:50

Sample ID: 15D0401-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 14:40	MJH
Barium	34	2.5	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 14:40	MJH
Cadmium	0.26	0.25	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 14:40	MJH
Chromium	8.4	0.49	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 14:40	MJH
Lead	40	0.74	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 14:40	MJH
Mercury	0.37	0.025	mg/Kg dry	1		SW-846 7471B	4/9/15	4/10/15 14:06	SCB
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 14:40	MJH
Silver	ND	0.49	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 14:40	MJH

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-1 (0-3')

Sampled: 4/8/2015 08:50

Sample ID: 15D0401-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.5		% Wt	1		SM 2540G	4/13/15	4/14/15 12:10	SMC

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-2 (0-3')

Sampled: 4/8/2015 09:00

Sample ID: 15D0401-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Benzo(a)anthracene	0.21	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Benzo(a)pyrene	0.22	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Benzo(b)fluoranthene	0.22	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Chrysene	0.24	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Fluoranthene	0.42	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Phenanthrene	0.30	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Pyrene	0.64	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:27	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		67.6	30-130					4/15/15 11:27	
2-Fluorobiphenyl		67.6	30-130					4/15/15 11:27	
p-Terphenyl-d14		76.0	30-130					4/15/15 11:27	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-2 (0-3')

Sampled: 4/8/2015 09:00

Sample ID: 15D0401-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1254 [2]	0.14	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:12	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.0	30-150					4/14/15 17:12	
Decachlorobiphenyl [2]		83.6	30-150					4/14/15 17:12	
Tetrachloro-m-xylene [1]		83.4	30-150					4/14/15 17:12	
Tetrachloro-m-xylene [2]		88.1	30-150					4/14/15 17:12	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-2 (0-3')

Sampled: 4/8/2015 09:00

Sample ID: 15D0401-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:05	MJH
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:05	MJH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:05	MJH
Chromium	8.0	0.51	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:05	MJH
Lead	45	0.77	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:05	MJH
Mercury	0.032	0.024	mg/Kg dry	1		SW-846 7471B	4/9/15	4/10/15 14:08	SCB
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:05	MJH
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:05	MJH

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-2 (0-3')

Sampled: 4/8/2015 09:00

Sample ID: 15D0401-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.3		% Wt	1		SM 2540G	4/13/15	4/14/15 12:10	SMC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-3 (0-3')

Sampled: 4/8/2015 09:10

Sample ID: 15D0401-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 11:50	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		62.2	30-130					4/15/15 11:50	
2-Fluorobiphenyl		66.2	30-130					4/15/15 11:50	
p-Terphenyl-d14		75.2	30-130					4/15/15 11:50	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-3 (0-3')

Sampled: 4/8/2015 09:10

Sample ID: 15D0401-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:25	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.9	30-150					4/14/15 17:25	
Decachlorobiphenyl [2]		81.3	30-150					4/14/15 17:25	
Tetrachloro-m-xylene [1]		80.4	30-150					4/14/15 17:25	
Tetrachloro-m-xylene [2]		86.8	30-150					4/14/15 17:25	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-3 (0-3')

Sampled: 4/8/2015 09:10

Sample ID: 15D0401-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:11	MJH
Barium	440	2.4	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:11	MJH
Cadmium	ND	0.24	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:11	MJH
Chromium	10	0.48	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:11	MJH
Lead	4200	0.72	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:11	MJH
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	4/9/15	4/10/15 14:09	SCB
Selenium	ND	4.8	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:11	MJH
Silver	ND	0.48	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:11	MJH

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-3 (0-3')

Sampled: 4/8/2015 09:10

Sample ID: 15D0401-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.1		% Wt	1		SM 2540G	4/13/15	4/14/15 12:10	SMC

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-4 (0-3')

Sampled: 4/8/2015 09:15

Sample ID: 15D0401-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Chrysene	0.18	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Fluoranthene	0.24	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Pyrene	0.33	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:13	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		52.5	30-130					4/15/15 12:13	
2-Fluorobiphenyl		62.1	30-130					4/15/15 12:13	
p-Terphenyl-d14		66.7	30-130					4/15/15 12:13	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-4 (0-3')

Sampled: 4/8/2015 09:15

Sample ID: 15D0401-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:37	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.3	30-150					4/14/15 17:37	
Decachlorobiphenyl [2]		89.5	30-150					4/14/15 17:37	
Tetrachloro-m-xylene [1]		87.0	30-150					4/14/15 17:37	
Tetrachloro-m-xylene [2]		91.7	30-150					4/14/15 17:37	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-4 (0-3')

Sampled: 4/8/2015 09:15

Sample ID: 15D0401-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:16	MJH
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:16	MJH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:16	MJH
Chromium	7.1	0.52	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:16	MJH
Lead	22	0.77	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:16	MJH
Mercury	ND	0.024	mg/Kg dry	1		SW-846 7471B	4/9/15	4/10/15 14:11	SCB
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:16	MJH
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:16	MJH

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-4 (0-3')

Sampled: 4/8/2015 09:15

Sample ID: 15D0401-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.3		% Wt	1		SM 2540G	4/13/15	4/14/15 12:10	SMC

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-5 (0-3')

Sampled: 4/8/2015 09:20

Sample ID: 15D0401-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	4/14/15	4/15/15 12:35	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		72.2	30-130					4/15/15 12:35	
2-Fluorobiphenyl		77.3	30-130					4/15/15 12:35	
p-Terphenyl-d14		82.8	30-130					4/15/15 12:35	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-5 (0-3')

Sampled: 4/8/2015 09:20

Sample ID: 15D0401-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1254 [2]	0.14	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	4/9/15	4/14/15 17:49	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.7	30-150					4/14/15 17:49	
Decachlorobiphenyl [2]		93.6	30-150					4/14/15 17:49	
Tetrachloro-m-xylene [1]		92.0	30-150					4/14/15 17:49	
Tetrachloro-m-xylene [2]		97.7	30-150					4/14/15 17:49	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-5 (0-3')

Sampled: 4/8/2015 09:20

Sample ID: 15D0401-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:21	MJH
Barium	22	2.6	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:21	MJH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:21	MJH
Chromium	6.0	0.52	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:21	MJH
Lead	17	0.78	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:21	MJH
Mercury	ND	0.024	mg/Kg dry	1		SW-846 7471B	4/9/15	4/10/15 14:12	SCB
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:21	MJH
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	4/11/15	4/13/15 15:21	MJH

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D0401

Date Received: 4/8/2015

Field Sample #: TREE-5 (0-3')

Sampled: 4/8/2015 09:20

Sample ID: 15D0401-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.3		% Wt	1		SM 2540G	4/13/15	4/14/15 12:10	SMC

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
15D0401-01 [TREE-1 (0-3')]	B119203	04/13/15
15D0401-02 [TREE-2 (0-3')]	B119203	04/13/15
15D0401-03 [TREE-3 (0-3')]	B119203	04/13/15
15D0401-04 [TREE-4 (0-3')]	B119203	04/13/15
15D0401-05 [TREE-5 (0-3')]	B119203	04/13/15

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15D0401-01 [TREE-1 (0-3')]	B119073	1.02	50.0	04/11/15
15D0401-02 [TREE-2 (0-3')]	B119073	0.979	50.0	04/11/15
15D0401-03 [TREE-3 (0-3')]	B119073	1.05	50.0	04/11/15
15D0401-04 [TREE-4 (0-3')]	B119073	0.977	50.0	04/11/15
15D0401-05 [TREE-5 (0-3')]	B119073	0.980	50.0	04/11/15

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15D0401-01 [TREE-1 (0-3')]	B118893	0.613	50.0	04/09/15
15D0401-02 [TREE-2 (0-3')]	B118893	0.630	50.0	04/09/15
15D0401-03 [TREE-3 (0-3')]	B118893	0.607	50.0	04/09/15
15D0401-04 [TREE-4 (0-3')]	B118893	0.624	50.0	04/09/15
15D0401-05 [TREE-5 (0-3')]	B118893	0.627	50.0	04/09/15

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15D0401-01 [TREE-1 (0-3')]	B118890	10.1	10.0	04/09/15
15D0401-02 [TREE-2 (0-3')]	B118890	10.3	10.0	04/09/15
15D0401-03 [TREE-3 (0-3')]	B118890	10.1	10.0	04/09/15
15D0401-04 [TREE-4 (0-3')]	B118890	10.0	10.0	04/09/15
15D0401-05 [TREE-5 (0-3')]	B118890	10.0	10.0	04/09/15

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15D0401-01 [TREE-1 (0-3')]	B119291	30.0	1.00	04/14/15
15D0401-02 [TREE-2 (0-3')]	B119291	30.0	1.00	04/14/15
15D0401-03 [TREE-3 (0-3')]	B119291	30.0	1.00	04/14/15
15D0401-04 [TREE-4 (0-3')]	B119291	30.0	1.00	04/14/15
15D0401-05 [TREE-5 (0-3')]	B119291	30.1	1.00	04/14/15

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B119291 - SW-846 3546

Blank (B119291-BLK1)

Prepared: 04/14/15 Analyzed: 04/15/15

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.81		mg/Kg wet	3.33		84.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.95		mg/Kg wet	3.33		88.6	30-130			
Surrogate: p-Terphenyl-d14	3.84		mg/Kg wet	3.33		115	30-130			

LCS (B119291-BS1)

Prepared: 04/14/15 Analyzed: 04/15/15

Acenaphthene	1.40	0.17	mg/Kg wet	1.67		84.1	40-140			
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.5	40-140			
Anthracene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140			
Benzo(a)anthracene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140			
Benzo(a)pyrene	1.50	0.17	mg/Kg wet	1.67		90.2	40-140			
Benzo(b)fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140			
Benzo(g,h,i)perylene	1.54	0.17	mg/Kg wet	1.67		92.7	40-140			
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140			
Chrysene	1.52	0.17	mg/Kg wet	1.67		91.3	40-140			
Dibenz(a,h)anthracene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140			
Fluoranthene	1.43	0.17	mg/Kg wet	1.67		85.6	40-140			
Fluorene	1.44	0.17	mg/Kg wet	1.67		86.7	40-140			
Indeno(1,2,3-cd)pyrene	1.51	0.17	mg/Kg wet	1.67		90.5	40-140			
2-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140			
Phenanthrene	1.49	0.17	mg/Kg wet	1.67		89.3	40-140			
Pyrene	1.60	0.17	mg/Kg wet	1.67		95.9	40-140			
Surrogate: Nitrobenzene-d5	2.67		mg/Kg wet	3.33		80.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.93		mg/Kg wet	3.33		87.8	30-130			
Surrogate: p-Terphenyl-d14	3.48		mg/Kg wet	3.33		104	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B119291 - SW-846 3546										
LCS Dup (B119291-BSD1)										
					Prepared: 04/14/15 Analyzed: 04/15/15					
Acenaphthene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140	15.4	30	
Acenaphthylene	1.61	0.17	mg/Kg wet	1.67		96.4	40-140	14.3	30	
Anthracene	1.69	0.17	mg/Kg wet	1.67		102	40-140	15.0	30	
Benzo(a)anthracene	1.69	0.17	mg/Kg wet	1.67		102	40-140	13.4	30	
Benzo(a)pyrene	1.71	0.17	mg/Kg wet	1.67		102	40-140	12.7	30	
Benzo(b)fluoranthene	1.66	0.17	mg/Kg wet	1.67		99.8	40-140	12.2	30	
Benzo(g,h,i)perylene	1.75	0.17	mg/Kg wet	1.67		105	40-140	12.4	30	
Benzo(k)fluoranthene	1.71	0.17	mg/Kg wet	1.67		102	40-140	15.4	30	
Chrysene	1.74	0.17	mg/Kg wet	1.67		104	40-140	13.1	30	
Dibenz(a,h)anthracene	1.68	0.17	mg/Kg wet	1.67		101	40-140	12.6	30	
Fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.2	40-140	12.7	30	
Fluorene	1.66	0.17	mg/Kg wet	1.67		99.5	40-140	13.8	30	
Indeno(1,2,3-cd)pyrene	1.73	0.17	mg/Kg wet	1.67		104	40-140	13.8	30	
2-Methylnaphthalene	1.52	0.17	mg/Kg wet	1.67		91.3	40-140	15.7	30	
Naphthalene	1.40	0.17	mg/Kg wet	1.67		84.1	40-140	14.3	30	
Phenanthrene	1.71	0.17	mg/Kg wet	1.67		103	40-140	13.8	30	
Pyrene	1.83	0.17	mg/Kg wet	1.67		110	40-140	13.5	30	
Surrogate: Nitrobenzene-d5	3.15		mg/Kg wet	3.33		94.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.36		mg/Kg wet	3.33		101	30-130			
Surrogate: p-Terphenyl-d14	3.91		mg/Kg wet	3.33		117	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B118890 - SW-846 3540C										
Blank (B118890-BLK1)										
Prepared: 04/09/15 Analyzed: 04/14/15										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.196		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.196		99.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.196		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.196		86.3	30-150			
LCS (B118890-BS1)										
Prepared: 04/09/15 Analyzed: 04/14/15										
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		103	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		112	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Surrogate: Decachlorobiphenyl	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.200		93.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.7	30-150			
LCS Dup (B118890-BSD1)										
Prepared: 04/09/15 Analyzed: 04/14/15										
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		101	40-140	2.30	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140	3.89	30	
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		108	40-140	3.87	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	3.26	30	
Surrogate: Decachlorobiphenyl	0.200		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.7	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B118893 - SW-846 7471										
Blank (B118893-BLK1) Prepared: 04/09/15 Analyzed: 04/10/15										
Mercury	ND	0.025	mg/Kg wet							
LCS (B118893-BS1) Prepared: 04/09/15 Analyzed: 04/10/15										
Mercury	6.53	0.75	mg/Kg wet	7.10		92.0	73.7-126.3			
LCS Dup (B118893-BSD1) Prepared: 04/09/15 Analyzed: 04/10/15										
Mercury	6.46	0.76	mg/Kg wet	7.10		91.0	73.7-126.3	1.11	30	
Batch B119073 - SW-846 3050B										
Blank (B119073-BLK1) Prepared: 04/11/15 Analyzed: 04/13/15										
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B119073-BS1) Prepared: 04/11/15 Analyzed: 04/13/15										
Arsenic	114	4.9	mg/Kg wet	122		93.4	77.8-122.1			
Barium	159	4.9	mg/Kg wet	167		95.2	82-117.4			
Cadmium	82.3	0.49	mg/Kg wet	88.0		93.6	81.9-118.2			
Chromium	98.0	0.99	mg/Kg wet	102		96.1	78.7-120.6			
Lead	86.5	1.5	mg/Kg wet	94.5		91.5	82.4-117.8			
Selenium	137	9.9	mg/Kg wet	157		87.1	77.1-122.3			
Silver	30.2	0.99	mg/Kg wet	34.2		88.2	74.3-125.4			
LCS Dup (B119073-BSD1) Prepared: 04/11/15 Analyzed: 04/13/15										
Arsenic	117	4.8	mg/Kg wet	122		95.5	77.8-122.1	2.24	30	
Barium	163	4.8	mg/Kg wet	167		97.4	82-117.4	2.27	30	
Cadmium	83.7	0.48	mg/Kg wet	88.0		95.2	81.9-118.2	1.69	30	
Chromium	99.8	0.97	mg/Kg wet	102		97.8	78.7-120.6	1.76	30	
Lead	90.9	1.5	mg/Kg wet	94.5		96.2	82.4-117.8	5.00	30	
Selenium	141	9.7	mg/Kg wet	157		89.7	77.1-122.3	2.97	30	
Silver	31.0	0.97	mg/Kg wet	34.2		90.6	74.3-125.4	2.66	30	
MRL Check (B119073-MRL1) Prepared: 04/11/15 Analyzed: 04/13/15										
Lead	0.681	0.74	mg/Kg wet	0.736		92.6	80-120			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B119203 - % Solids

Duplicate (B119203-DUP1)

Source: 15D0401-01

Prepared: 04/13/15 Analyzed: 04/14/15

% Solids	99.6		% Wt			99.5		0.100	20	
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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

TREE-1 (0-3')

SW-846 8082A

Lab Sample ID: 15D0401-01 Date(s) Analyzed: 04/14/2015 04/14/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.34	
	2	0.00	-0.03	0.03	0.33	3.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

TREE-2 (0-3')

Lab Sample ID: 15D0401-02 Date(s) Analyzed: 04/14/2015 04/14/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.12	
	2	0.00	-0.03	0.03	0.14	12.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

TREE-5 (0-3')

Lab Sample ID: 15D0401-05 Date(s) Analyzed: 04/14/2015 04/14/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.13	
	2	0.00	-0.03	0.03	0.14	10.5

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
No results have been blank subtracted unless specified in the case narrative section.
- O-32 A dilution was performed as part of the standard analytical procedure.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA,NJ
Barium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,AIHA,ME,NC,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,NJ
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA,NJ
Acenaphthylene	CT,NY,NH,ME,NC,VA,NJ
Anthracene	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA,NJ
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA,NJ
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Chrysene	CT,NY,NH,ME,NC,VA,NJ
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA,NJ
Fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Fluorene	CT,NY,NH,ME,NC,VA,NJ
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA,NJ
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA,NJ
Naphthalene	CT,NY,NH,ME,NC,VA,NJ
Phenanthrene	CT,NY,NH,ME,NC,VA,NJ
Pyrene	CT,NY,NH,ME,NC,VA,NJ

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

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 East Longmeadow, MA 01028

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15D0401

Rev 04.06.12

Company Name: **TRC**
 Address: **650 Suffolk Street**
Lowell, MA 01854
 Attention: **David Sullivan**
 Project Location: **ARR New Bedford MA**
 Sampled By: **Bryan MacDonald**

Telephone: **978-970-5600**
 Project # **115058**
 Client PO# **79574**

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Fax #
 Email: **DSullivan@trcsoilchem.com**
 Format: PDF EXCEL GIS OTHER

Project Proposal Provided? (for billing purposes)
 Yes No proposal date

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Conc Code	Matrix Code
		Beginning Date/Time	Ending Date/Time				
01	TREE-1 (0-3')	4/9/15	8:50	<input checked="" type="checkbox"/>			
02	TREE-2 (0-3')	"	9:00	<input checked="" type="checkbox"/>			
03	TREE-3 (0-3')	"	9:10	<input checked="" type="checkbox"/>			
04	TREE-4 (0-3')	"	9:15	<input checked="" type="checkbox"/>			
05	TREE-5 (0-3')	"	9:20	<input checked="" type="checkbox"/>			

Comments: **standard 5 day turnaround time**

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *Bryan MacDonald*
 Date/Time: 4/15/15 10:58

Received by: (signature) *[Signature]*
 Date/Time: 4/16/15 10:58

Relinquished by: (signature) *[Signature]*
 Date/Time: 4/16/15 2:06

Received by: (signature) *[Signature]*
 Date/Time: 4/18/15 17:12

Turnaround #
 7-Day
 10-Day
 Other
RUSH
 24-Hr 48-Hr
 72-Hr 4-Day
 Require lab approval

Detection Limit Requirements
 Massachusetts: **MCR**
 Connecticut:
 Other:

Is your project MCP or RCP?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID #

Accredited
NELAC & AIHA-LAP, LLC
 Accredited
WB/DBE Certified

TURNAROUND TIME STARTS AT 9:00 AM, THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: JRC RECEIVED BY: JDL DATE: 4/8/15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain: _____
- 3) Are all the samples in good condition? Yes No
 If not, explain: _____

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.6

5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19
Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			<u>8 oz amber/clear jar</u>	<u>5</u>
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Plastic Bag / Ziploc	
500 mL Plastic			SOC Kit	
250 mL plastic			Non-ConTest Container	
40 mL Vial - type listed below			Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol _____ # Bisulfate _____ # DI Water _____ # Thiosulfate _____ Unpreserved _____	Time and Date Frozen: _____
--	-----------------------------

Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials: JDL

Date/Time:

Date/Time: 4/8/15 1720

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15D0401

Project Location: ARP New Bedford, MA

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

15D0401-01 thru 15D0401-05

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

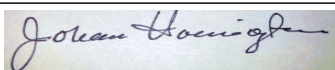
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____



Position: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington

Date: 04/16/15

April 30, 2015

David Sullivan
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: ARP New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 15D1117

Enclosed are results of analyses for samples received by the laboratory on April 23, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, flowing "y" at the end.

Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 4/30/2015

PURCHASE ORDER NUMBER: 79574

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15D1117

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: ARP New Bedford, MA

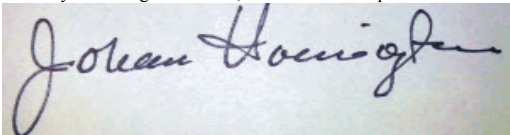
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TREE-3 (0-3')	15D1117-01	Soil		SM 2540G SW-846 1311 SW-846 6010C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A photograph of a handwritten signature in black ink on a light-colored background. The signature is written in a cursive style and reads "Johanna K. Harrington".

Johanna K. Harrington
Manager, Laboratory Reporting

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D1117

Date Received: 4/23/2015

Field Sample #: TREE-3 (0-3')

Sampled: 4/8/2015 09:10

Sample ID: 15D1117-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.1		% Wt	1		SM 2540G	4/30/15	4/30/15 9:45	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15D1117

Date Received: 4/23/2015

Field Sample #: TREE-3 (0-3')

Sampled: 4/8/2015 09:10

Sample ID: 15D1117-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.022	0.010	mg/L	1		SW-846 6010C	4/28/15	4/29/15 12:09	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
15D1117-01 [TREE-3 (0-3')]	B119203	04/30/15

Prep Method: SW-846 3010A-SW-846 6010C**Leachates were extracted on 4/27/2015 per SW-846 1311 in Batch B120301**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15D1117-01 [TREE-3 (0-3')]	B120439	50.0	50.0	04/28/15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B120439 - SW-846 3010A										
Blank (B120439-BLK1)				Prepared: 04/28/15 Analyzed: 04/29/15						
Lead	ND	0.010	mg/L							
LCS (B120439-BS1)				Prepared: 04/28/15 Analyzed: 04/29/15						
Lead	0.568	0.010	mg/L	0.500		114	80-120			
LCS Dup (B120439-BSD1)				Prepared: 04/28/15 Analyzed: 04/29/15						
Lead	0.567	0.010	mg/L	0.500		113	80-120	0.0762	20	
Matrix Spike (B120439-MS1)				Source: 15D1117-01		Prepared: 04/28/15 Analyzed: 04/29/15				
Lead	0.581	0.010	mg/L	0.500	0.0218	112	75-125			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

SW-846 6010C in Water

Lead NY,CT,ME,NC,NH,VA,NJ

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Company Name: TRC Telephone: 978-970-5600

Address: 650 Suffolk Street Project # 115058

Attention: David Sullivan Client PO# 79574

Project Location: ARP New Bedford MA

Sampled By: Bryan MacDonald

Project Proposal Provided? (for billing purposes) Yes No

Proposal date

DATA DELIVERY (check all that apply) FAX EMAIL WEBSITE

Email: DSullivan@trcsolutions.com

Format: PDF EXCEL GIS OTHER

Collection: "Enhanced Data Package" "Basic Data Package"

Composite Grab

Beginning Date/Time Ending Date/Time

4/9/15 8:50

" " 9:00

" " 9:10

" " 9:15

" " 9:20

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Matrix Code

Comments: Standard 5 day turnaround here

Requisitioned by: (signature) [Signature]

Date/Time: 4/15/15 16:58

Received by: (signature) [Signature]

Date/Time: 4/15/15 10:50

Requisitioned by: (signature) [Signature]

Date/Time: 4/16/15 5:26

Received by: (signature) [Signature]

Date/Time: 4/18/15 17:10

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Analysis Requested	# of Containers	Preservation	Container Code
01	TREE-1 (0-3')	4/9/15	8:50	<input checked="" type="checkbox"/>	<input type="checkbox"/>		TCRPs	1		A
02	TREE-2 (0-3')	"	9:00	<input checked="" type="checkbox"/>	<input type="checkbox"/>		TCRPs	1		A
03	TREE-3 (0-3')	"	9:10	<input checked="" type="checkbox"/>	<input type="checkbox"/>		TCRPs	1		A
04	TREE-4 (0-3')	"	9:15	<input checked="" type="checkbox"/>	<input type="checkbox"/>		TCRPs	1		A
05	TREE-5 (0-3')	"	9:20	<input checked="" type="checkbox"/>	<input type="checkbox"/>		TCRPs	1		A

ANALYSIS REQUESTED

Disolved Metals
 Field Filtered
 Lab to Filter

***Cont. Code:
 A=amber glass
 G=glass
 P=plastic
 ST=sterile
 V= vial
 S=Summa can
 T=redlar bag
 O=Other

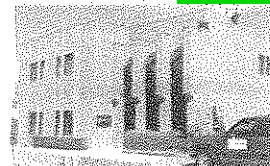
***Preservation
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 X = Na hydroxide
 Y = Na thiosulfate
 O = Other

***Matrix Code:
 GW= groundwater
 WW= wastewater
 DW= drinking water
 A = air
 S = soil/solid
 SL= sludge
 O = other

Is your project MCP or RCP?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID #

Accredited
 NELAC & AIMA-LAP, LLC
 WBE/DBE Certified

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: JRC RECEIVED BY: JDL DATE: 4/8/15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain:
- 3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.6

5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			<u>8 oz amber/clear jar</u>	<u>5</u>
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Plastic Bag / Ziploc	
500 mL Plastic			SOC Kit	
250 mL plastic			Non-ConTest Container	
40 mL Vial - type listed below			Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

Laboratory Comments:

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen:
Doc# 277 # Bisulfate _____	# DI Water _____	
Rev. 4 August 2013 # Thiosulfate _____	Unpreserved _____	

Login Sample Receipt Checklist
 (Rejection Criteria Listing - Using Sample Acceptance Policy)
 Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T	F/NA	
1) The cooler's custody seal, if present, is intact.		NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.		NA	
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.		NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.		NA	
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013 Who notified of False statements? Date/Time: 4/8/15 1720
 Log-In Technician Initials: JDL Date/Time: 4/8/15 1720

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15D1117

Project Location: ARP New Bedford, MA

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

15D1117-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB ()	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	8082 PCB CAM V A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

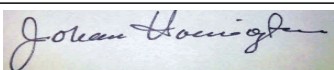
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____



Position: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington

Date: 04/30/15

June 19, 2015

Matt Oliveira
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 15E1423

Enclosed are results of analyses for samples received by the laboratory on May 29, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
 650 Suffolk Street
 Lowell, MA 01852
 ATTN: Matt Oliveira

REPORT DATE: 6/19/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15E1423

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-34R	15E1423-01	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-43	15E1423-02	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-44R	15E1423-03	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-45	15E1423-04	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-46	15E1423-05	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-47	15E1423-06	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
DUP	15E1423-07	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
Trip Blank	15E1423-08	Trip Blank Water		SW-846 8260C	
MW-46 - Filtered	15E1423-09	Ground Water		SW-846 8082A	
DUP - Filtered	15E1423-10	Ground Water		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 6/16/2015 - 15E1423-09 &-10 were filtered prior to extraction and analyzed for PCBs per clients request.

For method 8270, only PAHs were requested and reported.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 7470A

Qualifications:**L-07A**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Mercury**

B122947-BS1, B122947-BSD1

SW-846 8082A

Qualifications:**H-10**

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

15E1423-10[DUP - Filtered]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Aroclor-1016**

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], B123036-BLK1, B123036-BS1, B123036-BSD1

Aroclor-1016 [2C]

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], B123036-BLK1, B123036-BS1, B123036-BSD1

Aroclor-1260

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], B123036-BLK1, B123036-BS1, B123036-BSD1

Aroclor-1260 [2C]

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], B123036-BLK1, B123036-BS1, B123036-BSD1

SW-846 8260C

Qualifications:**L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Trichlorofluoromethane (Freon 11)**

B123229-BS1, B123229-BSD1

L-14

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:**Acetone**

B123229-BS1, B123229-BSD1

Dichlorodifluoromethane (Freon 12)

B123229-BS1, B123229-BSD1

RL-07

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Bromomethane**

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank]

Carbon Disulfide

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank]

Methylene Chloride

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank], B123229-BLK1, B123229-BS1, B123229-BSD1

1,2,4-Trichlorobenzene

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank], B123229-BLK1, B123229-BS1, B123229-BSD1

Naphthalene

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank], B123229-BLK1, B123229-BS1, B123229-BSD1

Tetrahydrofuran

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank], B123229-BLK1, B123229-BS1, B123229-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

15E1423-01[MW-34R], 15E1423-02[MW-43], 15E1423-03[MW-44R], 15E1423-04[MW-45], 15E1423-05[MW-46], 15E1423-06[MW-47], 15E1423-07[DUP], 15E1423-08[Trip Blank], B123229-BLK1, B123229-BS1, B123229-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Acetone

B123229-BS1, B123229-BSD1

Bromomethane

B123229-BS1, B123229-BSD1

Chloromethane

B123229-BS1, B123229-BSD1

Trichlorofluoromethane (Freon 11)

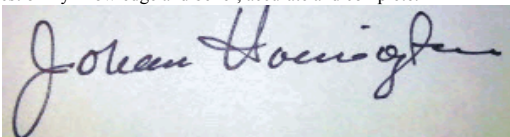
B123229-BS1, B123229-BSD1

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Johanna K. Harrington
Manager, Laboratory Reporting

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-34R

Sampled: 5/27/2015 12:30

Sample ID: 15E1423-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-34R

Sampled: 5/27/2015 12:30

Sample ID: 15E1423-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	114	70-130	6/4/15 6:30
Toluene-d8	104	70-130	6/4/15 6:30
4-Bromofluorobenzene	93.1	70-130	6/4/15 6:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-34R

Sampled: 5/27/2015 12:30

Sample ID: 15E1423-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:19	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		61.4	30-130					6/4/15 14:19	
2-Fluorobiphenyl (low)		60.5	30-130					6/4/15 14:19	
p-Terphenyl-d14 (low)		50.3	30-130					6/4/15 14:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-34R

Sampled: 5/27/2015 12:30

Sample ID: 15E1423-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:11	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		66.0	30-150					6/3/15 7:11	
Decachlorobiphenyl [2]		70.8	30-150					6/3/15 7:11	
Tetrachloro-m-xylene [1]		78.2	30-150					6/3/15 7:11	
Tetrachloro-m-xylene [2]		89.8	30-150					6/3/15 7:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-34R

Sampled: 5/27/2015 12:30

Sample ID: 15E1423-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Arsenic	0.69	0.40	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Barium	88	10	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Chromium	13	1.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Lead	3.4	1.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/2/15	6/8/15 9:59	SCB
Nickel	19	5.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Vanadium	7.1	5.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH
Zinc	25	10	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:46	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Sampled: 5/27/2015 12:30

Field Sample #: MW-34R

Sample ID: 15E1423-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Barium	64	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/1/15	6/4/15 10:25	SCB
Nickel	15	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH
Zinc	13	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:20	KSH

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-43

Sampled: 5/27/2015 14:30

Sample ID: 15E1423-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-43

Sampled: 5/27/2015 14:30

Sample ID: 15E1423-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	113	70-130	6/4/15 2:30
Toluene-d8	103	70-130	6/4/15 2:30
4-Bromofluorobenzene	93.4	70-130	6/4/15 2:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-43

Sampled: 5/27/2015 14:30

Sample ID: 15E1423-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 14:48	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		55.8	30-130					6/4/15 14:48	
2-Fluorobiphenyl (low)		58.4	30-130					6/4/15 14:48	
p-Terphenyl-d14 (low)		47.9	30-130					6/4/15 14:48	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-43

Sampled: 5/27/2015 14:30

Sample ID: 15E1423-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:23	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.6	30-150					6/3/15 7:23	
Decachlorobiphenyl [2]		101	30-150					6/3/15 7:23	
Tetrachloro-m-xylene [1]		86.6	30-150					6/3/15 7:23	
Tetrachloro-m-xylene [2]		99.2	30-150					6/3/15 7:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-43

Sampled: 5/27/2015 14:30

Sample ID: 15E1423-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Barium	60	10	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Chromium	2.1	1.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Lead	5.3	1.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/2/15	6/8/15 10:04	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	6/2/15	6/3/15 11:49	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-43

Sampled: 5/27/2015 14:30

Sample ID: 15E1423-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Barium	55	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/1/15	6/4/15 10:26	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:23	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-44R

Sampled: 5/27/2015 17:15

Sample ID: 15E1423-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-44R

Sampled: 5/27/2015 17:15

Sample ID: 15E1423-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 6:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	116	70-130	6/4/15 6:56
Toluene-d8	103	70-130	6/4/15 6:56
4-Bromofluorobenzene	93.8	70-130	6/4/15 6:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-44R

Sampled: 5/27/2015 17:15

Sample ID: 15E1423-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:16	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		55.8	30-130					6/4/15 15:16	
2-Fluorobiphenyl (low)		62.5	30-130					6/4/15 15:16	
p-Terphenyl-d14 (low)		48.9	30-130					6/4/15 15:16	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-44R

Sampled: 5/27/2015 17:15

Sample ID: 15E1423-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:36	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.2	30-150					6/3/15 7:36	
Decachlorobiphenyl [2]		88.1	30-150					6/3/15 7:36	
Tetrachloro-m-xylene [1]		77.9	30-150					6/3/15 7:36	
Tetrachloro-m-xylene [2]		89.5	30-150					6/3/15 7:36	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Sampled: 5/27/2015 17:15

Field Sample #: MW-44R

Sample ID: 15E1423-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Arsenic	1.1	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Barium	82	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Chromium	13	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Lead	54	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/2/15	6/8/15 10:05	SCB
Nickel	8.5	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Vanadium	7.8	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH
Zinc	60	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:55	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Sampled: 5/27/2015 17:15

Field Sample #: MW-44R

Sample ID: 15E1423-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Barium	40	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/1/15	6/4/15 10:31	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH
Zinc	12	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:32	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-45

Sampled: 5/27/2015 18:45

Sample ID: 15E1423-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-45

Sampled: 5/27/2015 18:45

Sample ID: 15E1423-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	114	70-130	6/4/15 2:56
Toluene-d8	105	70-130	6/4/15 2:56
4-Bromofluorobenzene	94.2	70-130	6/4/15 2:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-45

Sampled: 5/27/2015 18:45

Sample ID: 15E1423-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 15:45	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		55.7	30-130					6/4/15 15:45	
2-Fluorobiphenyl (low)		55.2	30-130					6/4/15 15:45	
p-Terphenyl-d14 (low)		45.4	30-130					6/4/15 15:45	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-45

Sampled: 5/27/2015 18:45

Sample ID: 15E1423-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 7:48	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.5	30-150					6/3/15 7:48	
Decachlorobiphenyl [2]		77.1	30-150					6/3/15 7:48	
Tetrachloro-m-xylene [1]		71.8	30-150					6/3/15 7:48	
Tetrachloro-m-xylene [2]		83.1	30-150					6/3/15 7:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Sampled: 5/27/2015 18:45

Field Sample #: MW-45

Sample ID: 15E1423-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Arsenic	0.62	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Barium	35	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Chromium	3.3	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Lead	22	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/2/15	6/8/15 10:07	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH
Zinc	70	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 13:58	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Sampled: 5/27/2015 18:45

Field Sample #: MW-45

Sample ID: 15E1423-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Barium	26	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Lead	1.8	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/1/15	6/4/15 10:33	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH
Zinc	52	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:35	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-46

Sampled: 5/28/2015 08:40

Sample ID: 15E1423-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-46

Sampled: 5/28/2015 08:40

Sample ID: 15E1423-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
p-Isopropyltoluene (p-Cymene)	2.1	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Toluene	6.4	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	116	70-130	6/4/15 10:30
Toluene-d8	105	70-130	6/4/15 10:30
4-Bromofluorobenzene	94.6	70-130	6/4/15 10:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-46

Sampled: 5/28/2015 08:40

Sample ID: 15E1423-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Phenanthrene (low)	0.093	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:14	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		50.6	30-130					6/4/15 16:14	
2-Fluorobiphenyl (low)		49.9	30-130					6/4/15 16:14	
p-Terphenyl-d14 (low)		38.6	30-130					6/4/15 16:14	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-46

Sampled: 5/28/2015 08:40

Sample ID: 15E1423-05

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	µg/L	5	R-05	SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1221 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1232 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1242 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1248 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1254 [2]	8.6	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1260 [1]	ND	1.0	µg/L	5	R-05	SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1262 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Aroclor-1268 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:37	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	77.5		30-150				6/3/15 17:37		
Decachlorobiphenyl [2]	80.5		30-150				6/3/15 17:37		
Tetrachloro-m-xylene [1]	79.3		30-150				6/3/15 17:37		
Tetrachloro-m-xylene [2]	86.3		30-150				6/3/15 17:37		

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-46

Sampled: 5/28/2015 08:40

Sample ID: 15E1423-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Arsenic	0.86	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Barium	62	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Chromium	1.1	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Lead	12	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/2/15	6/8/15 10:08	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH
Zinc	11	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:01	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-46

Sampled: 5/28/2015 08:40

Sample ID: 15E1423-05

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Arsenic	0.72	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Barium	57	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/1/15	6/4/15 10:34	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:38	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-47

Sampled: 5/28/2015 11:20

Sample ID: 15E1423-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-47

Sampled: 5/28/2015 11:20

Sample ID: 15E1423-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 10:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	117	70-130	6/4/15 10:52
Toluene-d8	104	70-130	6/4/15 10:52
4-Bromofluorobenzene	95.6	70-130	6/4/15 10:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-47

Sampled: 5/28/2015 11:20

Sample ID: 15E1423-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 16:42	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		54.6	30-130					6/4/15 16:42	
2-Fluorobiphenyl (low)		54.5	30-130					6/4/15 16:42	
p-Terphenyl-d14 (low)		43.0	30-130					6/4/15 16:42	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-47

Sampled: 5/28/2015 11:20

Sample ID: 15E1423-06

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/1/15	6/3/15 8:13	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.9	30-150					6/3/15 8:13	
Decachlorobiphenyl [2]		96.4	30-150					6/3/15 8:13	
Tetrachloro-m-xylene [1]		79.1	30-150					6/3/15 8:13	
Tetrachloro-m-xylene [2]		90.9	30-150					6/3/15 8:13	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-47

Sampled: 5/28/2015 11:20

Sample ID: 15E1423-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.0	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Arsenic	0.68	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Barium	89	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Chromium	1.8	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Lead	3.7	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/2/15	6/8/15 10:10	SCB
Nickel	6.0	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:04	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-47

Sampled: 5/28/2015 11:20

Sample ID: 15E1423-06

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.0	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Arsenic	0.64	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Barium	84	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/1/15	6/4/15 10:36	SCB
Nickel	5.4	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:41	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: DUP

Sampled: 5/28/2015 00:00

Sample ID: 15E1423-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: DUP

Sampled: 5/28/2015 00:00

Sample ID: 15E1423-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
p-Isopropyltoluene (p-Cymene)	1.7	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Toluene	5.4	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 11:18	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	116	70-130	6/4/15 11:18
Toluene-d8	103	70-130	6/4/15 11:18
4-Bromofluorobenzene	93.5	70-130	6/4/15 11:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: DUP

Sampled: 5/28/2015 00:00

Sample ID: 15E1423-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Phenanthrene (low)	0.074	0.050	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/2/15	6/4/15 17:11	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		53.0	30-130					6/4/15 17:11	
2-Fluorobiphenyl (low)		53.5	30-130					6/4/15 17:11	
p-Terphenyl-d14 (low)		38.3	30-130					6/4/15 17:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: DUP

Sampled: 5/28/2015 00:00

Sample ID: 15E1423-07

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	µg/L	5	R-05	SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1221 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1232 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1242 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1248 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1254 [2]	9.3	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1260 [1]	ND	1.0	µg/L	5	R-05	SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1262 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Aroclor-1268 [1]	ND	1.0	µg/L	5		SW-846 8082A	6/1/15	6/3/15 17:50	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	73.3		30-150				6/3/15 17:50		
Decachlorobiphenyl [2]	77.5		30-150				6/3/15 17:50		
Tetrachloro-m-xylene [1]	82.2		30-150				6/3/15 17:50		
Tetrachloro-m-xylene [2]	89.5		30-150				6/3/15 17:50		

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Sampled: 5/28/2015 00:00

Field Sample #: DUP

Sample ID: 15E1423-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Arsenic	0.81	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Barium	59	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Lead	8.0	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/2/15	6/8/15 10:11	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:07	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Sampled: 5/28/2015 00:00

Field Sample #: DUP

Sample ID: 15E1423-07

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Arsenic	0.68	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Barium	57	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/1/15	6/4/15 10:37	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH
Zinc	ND	10	µg/L	1		SW-846 6020A	6/1/15	6/2/15 14:44	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: Trip Blank

Sampled: 5/28/2015 00:00

Sample ID: 15E1423-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: Trip Blank

Sampled: 5/28/2015 00:00

Sample ID: 15E1423-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/3/15	6/4/15 2:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	114	70-130	6/4/15 2:03
Toluene-d8	104	70-130	6/4/15 2:03
4-Bromofluorobenzene	94.4	70-130	6/4/15 2:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: MW-46 - Filtered

Sampled: 5/28/2015 08:40

Sample ID: 15E1423-09

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1254 [1]	0.73	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/9/15	6/15/15 14:20	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.6	30-150					6/15/15 14:20	
Decachlorobiphenyl [2]		67.8	30-150					6/15/15 14:20	
Tetrachloro-m-xylene [1]		74.0	30-150					6/15/15 14:20	
Tetrachloro-m-xylene [2]		67.3	30-150					6/15/15 14:20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1423

Date Received: 5/29/2015

Field Sample #: DUP - Filtered

Sampled: 5/28/2015 00:00

Sample ID: 15E1423-10

Sample Matrix: Ground Water

Sample Flags: H-10

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1254 [2]	0.87	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/10/15	6/11/15 12:41	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.4	30-150					6/11/15 12:41	
Decachlorobiphenyl [2]		92.1	30-150					6/11/15 12:41	
Tetrachloro-m-xylene [1]		79.4	30-150					6/11/15 12:41	
Tetrachloro-m-xylene [2]		89.5	30-150					6/11/15 12:41	

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-01 [MW-34R]	B123020	50.0	50.0	06/01/15
15E1423-02 [MW-43]	B123020	50.0	50.0	06/01/15
15E1423-03 [MW-44R]	B123020	50.0	50.0	06/01/15
15E1423-04 [MW-45]	B123020	50.0	50.0	06/01/15
15E1423-05 [MW-46]	B123020	50.0	50.0	06/01/15
15E1423-06 [MW-47]	B123020	50.0	50.0	06/01/15
15E1423-07 [DUP]	B123020	50.0	50.0	06/01/15

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-03 [MW-44R]	B123099	50.0	50.0	06/01/15
15E1423-04 [MW-45]	B123099	50.0	50.0	06/01/15
15E1423-05 [MW-46]	B123099	50.0	50.0	06/01/15
15E1423-06 [MW-47]	B123099	50.0	50.0	06/01/15
15E1423-07 [DUP]	B123099	50.0	50.0	06/01/15

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-01 [MW-34R]	B123136	50.0	50.0	06/02/15
15E1423-02 [MW-43]	B123136	50.0	50.0	06/02/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-01 [MW-34R]	B122947	6.00	6.00	06/01/15
15E1423-02 [MW-43]	B122947	6.00	6.00	06/01/15
15E1423-03 [MW-44R]	B122947	6.00	6.00	06/01/15
15E1423-04 [MW-45]	B122947	6.00	6.00	06/01/15
15E1423-05 [MW-46]	B122947	6.00	6.00	06/01/15
15E1423-06 [MW-47]	B122947	6.00	6.00	06/01/15
15E1423-07 [DUP]	B122947	6.00	6.00	06/01/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-01 [MW-34R]	B123058	6.00	6.00	06/02/15
15E1423-02 [MW-43]	B123058	6.00	6.00	06/02/15
15E1423-03 [MW-44R]	B123058	6.00	6.00	06/02/15
15E1423-04 [MW-45]	B123058	6.00	6.00	06/02/15
15E1423-05 [MW-46]	B123058	6.00	6.00	06/02/15
15E1423-06 [MW-47]	B123058	6.00	6.00	06/02/15
15E1423-07 [DUP]	B123058	6.00	6.00	06/02/15

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-01 [MW-34R]	B123036	1000	10.0	06/01/15

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-02 [MW-43]	B123036	1000	10.0	06/01/15
15E1423-03 [MW-44R]	B123036	1000	10.0	06/01/15
15E1423-04 [MW-45]	B123036	1000	10.0	06/01/15
15E1423-05 [MW-46]	B123036	1000	10.0	06/01/15
15E1423-06 [MW-47]	B123036	1000	10.0	06/01/15
15E1423-07 [DUP]	B123036	1000	10.0	06/01/15

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-09 [MW-46 - Filtered]	B123746	1000	10.0	06/09/15

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-10 [DUP - Filtered]	B123848	1000	10.0	06/10/15

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-01 [MW-34R]	B123229	5	5.00	06/03/15
15E1423-02 [MW-43]	B123229	5	5.00	06/03/15
15E1423-03 [MW-44R]	B123229	5	5.00	06/03/15
15E1423-04 [MW-45]	B123229	5	5.00	06/03/15
15E1423-05 [MW-46]	B123229	5	5.00	06/03/15
15E1423-06 [MW-47]	B123229	5	5.00	06/03/15
15E1423-07 [DUP]	B123229	5	5.00	06/03/15
15E1423-08 [Trip Blank]	B123229	5	5.00	06/03/15

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E1423-01 [MW-34R]	B123138	1000	1.00	06/02/15
15E1423-02 [MW-43]	B123138	1000	1.00	06/02/15
15E1423-03 [MW-44R]	B123138	1000	1.00	06/02/15
15E1423-04 [MW-45]	B123138	1000	1.00	06/02/15
15E1423-05 [MW-46]	B123138	1000	1.00	06/02/15
15E1423-06 [MW-47]	B123138	1000	1.00	06/02/15
15E1423-07 [DUP]	B123138	1000	1.00	06/02/15

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B123229 - SW-846 5030B

Blank (B123229-BLK1)

Prepared: 06/03/15 Analyzed: 06/04/15

Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	5.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123229 - SW-846 5030B										
Blank (B123229-BLK1)										
Prepared: 06/03/15 Analyzed: 06/04/15										
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							V-05
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							V-05
1,2,4-Trichlorobenzene	ND	1.0	µg/L							V-05
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	28.6		µg/L	25.0		115	70-130			
Surrogate: Toluene-d8	26.2		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.9	70-130			
LCS (B123229-BS1)										
Prepared: 06/03/15 Analyzed: 06/04/15										
Acetone	154	10	µg/L	100		154	40-160			L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	9.18	0.50	µg/L	10.0		91.8	70-130			
Benzene	10.5	1.0	µg/L	10.0		105	70-130			
Bromobenzene	9.12	1.0	µg/L	10.0		91.2	70-130			
Bromochloromethane	11.0	1.0	µg/L	10.0		110	70-130			
Bromodichloromethane	9.71	1.0	µg/L	10.0		97.1	70-130			
Bromoform	9.81	1.0	µg/L	10.0		98.1	70-130			
Bromomethane	8.00	5.0	µg/L	10.0		80.0	40-160			V-20 †
2-Butanone (MEK)	86.7	10	µg/L	100		86.7	40-160			†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.42	0.50	µg/L	10.0		94.2	70-130			
Carbon Disulfide	12.0	5.0	µg/L	10.0		120	70-130			
Carbon Tetrachloride	11.4	1.0	µg/L	10.0		114	70-130			
Chlorobenzene	9.95	1.0	µg/L	10.0		99.5	70-130			
Chlorodibromomethane	9.18	0.50	µg/L	10.0		91.8	70-130			
Chloroethane	11.7	2.0	µg/L	10.0		117	70-130			
Chloroform	11.0	2.0	µg/L	10.0		110	70-130			
Chloromethane	8.06	2.0	µg/L	10.0		80.6	40-160			V-20 †
2-Chlorotoluene	9.65	1.0	µg/L	10.0		96.5	70-130			
4-Chlorotoluene	9.30	1.0	µg/L	10.0		93.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.55	2.0	µg/L	10.0		85.5	70-130			
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130			
Dibromomethane	10.7	1.0	µg/L	10.0		107	70-130			
1,2-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130			
1,3-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,4-Dichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123229 - SW-846 5030B										
LCS (B123229-BS1)										
					Prepared: 06/03/15 Analyzed: 06/04/15					
Dichlorodifluoromethane (Freon 12)	4.70	2.0	µg/L	10.0		47.0	40-160			L-14 †
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dichloroethane	9.26	1.0	µg/L	10.0		92.6	70-130			
1,1-Dichloroethylene	9.90	1.0	µg/L	10.0		99.0	70-130			
cis-1,2-Dichloroethylene	9.81	1.0	µg/L	10.0		98.1	70-130			
trans-1,2-Dichloroethylene	9.35	1.0	µg/L	10.0		93.5	70-130			
1,2-Dichloropropane	9.11	1.0	µg/L	10.0		91.1	70-130			
1,3-Dichloropropane	9.25	0.50	µg/L	10.0		92.5	70-130			
2,2-Dichloropropane	8.46	1.0	µg/L	10.0		84.6	70-130			
1,1-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
cis-1,3-Dichloropropene	9.30	0.40	µg/L	10.0		93.0	70-130			
trans-1,3-Dichloropropene	10.0	0.40	µg/L	10.0		100	70-130			
Diethyl Ether	12.9	2.0	µg/L	10.0		129	70-130			
Diisopropyl Ether (DIPE)	8.78	0.50	µg/L	10.0		87.8	70-130			
1,4-Dioxane	96.0	50	µg/L	100		96.0	40-160			V-16 †
Ethylbenzene	9.91	1.0	µg/L	10.0		99.1	70-130			
Hexachlorobutadiene	8.12	0.50	µg/L	10.0		81.2	70-130			
2-Hexanone (MBK)	82.6	10	µg/L	100		82.6	40-160			†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130			
p-Isopropyltoluene (p-Cymene)	10.0	1.0	µg/L	10.0		100	70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130			
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130			
4-Methyl-2-pentanone (MIBK)	82.8	10	µg/L	100		82.8	40-160			†
Naphthalene	9.21	2.0	µg/L	10.0		92.1	70-130			V-05
n-Propylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Styrene	9.68	1.0	µg/L	10.0		96.8	70-130			
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	9.65	0.50	µg/L	10.0		96.5	70-130			
Tetrachloroethylene	8.60	1.0	µg/L	10.0		86.0	70-130			
Tetrahydrofuran	9.34	2.0	µg/L	10.0		93.4	70-130			V-05
Toluene	9.72	1.0	µg/L	10.0		97.2	70-130			
1,2,3-Trichlorobenzene	8.31	2.0	µg/L	10.0		83.1	70-130			V-05
1,2,4-Trichlorobenzene	8.60	1.0	µg/L	10.0		86.0	70-130			V-05
1,1,1-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130			
1,1,2-Trichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130			
Trichloroethylene	9.80	1.0	µg/L	10.0		98.0	70-130			
Trichlorofluoromethane (Freon 11)	15.3	2.0	µg/L	10.0		153 *	70-130			L-02, V-20
1,2,3-Trichloropropane	9.64	2.0	µg/L	10.0		96.4	70-130			
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	9.48	1.0	µg/L	10.0		94.8	70-130			
Vinyl Chloride	8.52	2.0	µg/L	10.0		85.2	70-130			
m+p Xylene	19.8	2.0	µg/L	20.0		99.1	70-130			
o-Xylene	9.72	1.0	µg/L	10.0		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	28.5		µg/L	25.0		114	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.3	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B123229 - SW-846 5030B

LCS Dup (B123229-BSD1)

Prepared: 06/03/15 Analyzed: 06/04/15

Acetone	151	10	µg/L	100		151	40-160	1.56	20	L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	9.17	0.50	µg/L	10.0		91.7	70-130	0.109	20	
Benzene	10.2	1.0	µg/L	10.0		102	70-130	2.70	20	
Bromobenzene	8.97	1.0	µg/L	10.0		89.7	70-130	1.66	20	
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130	3.24	20	
Bromodichloromethane	10.0	1.0	µg/L	10.0		100	70-130	3.14	20	
Bromoform	9.57	1.0	µg/L	10.0		95.7	70-130	2.48	20	
Bromomethane	9.50	5.0	µg/L	10.0		95.0	40-160	17.1	20	V-20 †
2-Butanone (MEK)	85.3	10	µg/L	100		85.3	40-160	1.64	20	†
n-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130	8.31	20	
sec-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130	5.68	20	
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	3.92	20	
tert-Butyl Ethyl Ether (TBEE)	9.32	0.50	µg/L	10.0		93.2	70-130	1.07	20	
Carbon Disulfide	11.3	5.0	µg/L	10.0		113	70-130	5.41	20	
Carbon Tetrachloride	11.2	1.0	µg/L	10.0		112	70-130	2.65	20	
Chlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130	2.54	20	
Chlorodibromomethane	9.58	0.50	µg/L	10.0		95.8	70-130	4.26	20	
Chloroethane	11.9	2.0	µg/L	10.0		119	70-130	1.70	20	
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	0.548	20	
Chloromethane	9.21	2.0	µg/L	10.0		92.1	40-160	13.3	20	V-20 †
2-Chlorotoluene	9.26	1.0	µg/L	10.0		92.6	70-130	4.12	20	
4-Chlorotoluene	9.29	1.0	µg/L	10.0		92.9	70-130	0.108	20	
1,2-Dibromo-3-chloropropane (DBCP)	9.22	2.0	µg/L	10.0		92.2	70-130	7.54	20	
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	0.984	20	
Dibromomethane	10.7	1.0	µg/L	10.0		107	70-130	0.281	20	
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	7.57	20	
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	7.41	20	
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	2.60	20	
Dichlorodifluoromethane (Freon 12)	4.58	2.0	µg/L	10.0		45.8	40-160	2.59	20	L-14 †
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	0.00	20	
1,2-Dichloroethane	9.42	1.0	µg/L	10.0		94.2	70-130	1.71	20	
1,1-Dichloroethylene	9.65	1.0	µg/L	10.0		96.5	70-130	2.56	20	
cis-1,2-Dichloroethylene	9.49	1.0	µg/L	10.0		94.9	70-130	3.32	20	
trans-1,2-Dichloroethylene	9.28	1.0	µg/L	10.0		92.8	70-130	0.751	20	
1,2-Dichloropropane	8.86	1.0	µg/L	10.0		88.6	70-130	2.78	20	
1,3-Dichloropropane	9.44	0.50	µg/L	10.0		94.4	70-130	2.03	20	
2,2-Dichloropropane	8.28	1.0	µg/L	10.0		82.8	70-130	2.15	20	
1,1-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130	2.53	20	
cis-1,3-Dichloropropene	9.40	0.40	µg/L	10.0		94.0	70-130	1.07	20	
trans-1,3-Dichloropropene	10.2	0.40	µg/L	10.0		102	70-130	2.47	20	
Diethyl Ether	12.7	2.0	µg/L	10.0		127	70-130	1.80	20	
Diisopropyl Ether (DIPE)	8.51	0.50	µg/L	10.0		85.1	70-130	3.12	20	
1,4-Dioxane	83.6	50	µg/L	100		83.6	40-160	13.8	20	V-16 †
Ethylbenzene	9.75	1.0	µg/L	10.0		97.5	70-130	1.63	20	
Hexachlorobutadiene	8.93	0.50	µg/L	10.0		89.3	70-130	9.50	20	
2-Hexanone (MBK)	81.1	10	µg/L	100		81.1	40-160	1.92	20	†
Isopropylbenzene (Cumene)	9.91	1.0	µg/L	10.0		99.1	70-130	2.49	20	
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110	70-130	8.94	20	
Methyl tert-Butyl Ether (MTBE)	9.80	1.0	µg/L	10.0		98.0	70-130	3.31	20	
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130	0.200	20	
4-Methyl-2-pentanone (MIBK)	81.5	10	µg/L	100		81.5	40-160	1.66	20	†
Naphthalene	9.41	2.0	µg/L	10.0		94.1	70-130	2.15	20	V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123229 - SW-846 5030B										
LCS Dup (B123229-BSD1)										
					Prepared: 06/03/15 Analyzed: 06/04/15					
n-Propylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	2.00	20	
Styrene	9.43	1.0	µg/L	10.0		94.3	70-130	2.62	20	
1,1,1,2-Tetrachloroethane	9.91	1.0	µg/L	10.0		99.1	70-130	2.98	20	
1,1,2,2-Tetrachloroethane	9.31	0.50	µg/L	10.0		93.1	70-130	3.59	20	
Tetrachloroethylene	8.41	1.0	µg/L	10.0		84.1	70-130	2.23	20	
Tetrahydrofuran	9.22	2.0	µg/L	10.0		92.2	70-130	1.29	20	V-05
Toluene	9.71	1.0	µg/L	10.0		97.1	70-130	0.103	20	
1,2,3-Trichlorobenzene	8.70	2.0	µg/L	10.0		87.0	70-130	4.59	20	V-05
1,2,4-Trichlorobenzene	8.92	1.0	µg/L	10.0		89.2	70-130	3.65	20	V-05
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130	2.15	20	
1,1,2-Trichloroethane	9.63	1.0	µg/L	10.0		96.3	70-130	0.104	20	
Trichloroethylene	9.81	1.0	µg/L	10.0		98.1	70-130	0.102	20	
Trichlorofluoromethane (Freon 11)	15.4	2.0	µg/L	10.0		154 *	70-130	0.846	20	L-02, V-20
1,2,3-Trichloropropane	9.20	2.0	µg/L	10.0		92.0	70-130	4.67	20	
1,2,4-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	6.56	20	
1,3,5-Trimethylbenzene	9.36	1.0	µg/L	10.0		93.6	70-130	1.27	20	
Vinyl Chloride	8.08	2.0	µg/L	10.0		80.8	70-130	5.30	20	
m+p Xylene	19.4	2.0	µg/L	20.0		97.0	70-130	2.09	20	
o-Xylene	9.69	1.0	µg/L	10.0		96.9	70-130	0.309	20	
Surrogate: 1,2-Dichloroethane-d4	28.3		µg/L	25.0		113	70-130			
Surrogate: Toluene-d8	26.1		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.2	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B123138 - SW-846 3510C

Blank (B123138-BLK1)

Prepared: 06/02/15 Analyzed: 06/04/15

Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	ND	0.050	µg/L							
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	57.9		µg/L	100		57.9	30-130			
Surrogate: 2-Fluorobiphenyl (low)	55.7		µg/L	100		55.7	30-130			
Surrogate: p-Terphenyl-d14 (low)	45.8		µg/L	100		45.8	30-130			

LCS (B123138-BS1)

Prepared: 06/02/15 Analyzed: 06/04/15

Acenaphthene (low)	90.8	7.5	µg/L	100		90.8	40-140			
Acenaphthylene (low)	87.4	7.5	µg/L	100		87.4	40-140			
Anthracene (low)	89.9	5.0	µg/L	100		89.9	40-140			
Benzo(a)anthracene (low)	89.5	1.2	µg/L	100		89.5	40-140			
Benzo(a)pyrene (low)	91.1	2.5	µg/L	100		91.1	40-140			
Benzo(b)fluoranthene (low)	88.0	1.2	µg/L	100		88.0	40-140			
Benzo(g,h,i)perylene (low)	88.4	12	µg/L	100		88.4	40-140			
Benzo(k)fluoranthene (low)	84.7	5.0	µg/L	100		84.7	40-140			
Chrysene (low)	86.7	5.0	µg/L	100		86.7	40-140			
Dibenz(a,h)anthracene (low)	96.6	5.0	µg/L	100		96.6	40-140			
Fluoranthene (low)	89.0	12	µg/L	100		89.0	40-140			
Fluorene (low)	93.3	25	µg/L	100		93.3	40-140			
Indeno(1,2,3-cd)pyrene (low)	94.1	5.0	µg/L	100		94.1	40-140			
2-Methylnaphthalene (low)	90.4	25	µg/L	100		90.4	40-140			
Naphthalene (low)	83.6	25	µg/L	100		83.6	40-140			
Phenanthrene (low)	86.5	1.2	µg/L	100		86.5	40-140			
Pyrene (low)	89.2	25	µg/L	100		89.2	40-140			
Surrogate: Nitrobenzene-d5 (low)	63.7		µg/L	100		63.7	30-130			
Surrogate: 2-Fluorobiphenyl (low)	67.2		µg/L	100		67.2	30-130			
Surrogate: p-Terphenyl-d14 (low)	52.2		µg/L	100		52.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123138 - SW-846 3510C										
LCS Dup (B123138-BSD1)										
					Prepared: 06/02/15 Analyzed: 06/04/15					
Acenaphthene (low)	88.8	7.5	µg/L	100		88.8	40-140	2.31	20	
Acenaphthylene (low)	85.2	7.5	µg/L	100		85.2	40-140	2.61	20	
Anthracene (low)	88.5	5.0	µg/L	100		88.5	40-140	1.54	20	
Benzo(a)anthracene (low)	88.3	1.2	µg/L	100		88.3	40-140	1.32	20	
Benzo(a)pyrene (low)	89.9	2.5	µg/L	100		89.9	40-140	1.27	20	
Benzo(b)fluoranthene (low)	87.0	1.2	µg/L	100		87.0	40-140	1.14	20	
Benzo(g,h,i)perylene (low)	87.4	12	µg/L	100		87.4	40-140	1.08	20	
Benzo(k)fluoranthene (low)	84.0	5.0	µg/L	100		84.0	40-140	0.800	20	
Chrysene (low)	85.4	5.0	µg/L	100		85.4	40-140	1.48	20	
Dibenz(a,h)anthracene (low)	95.5	5.0	µg/L	100		95.5	40-140	1.17	20	
Fluoranthene (low)	88.1	12	µg/L	100		88.1	40-140	1.02	20	
Fluorene (low)	91.8	25	µg/L	100		91.8	40-140	1.62	20	
Indeno(1,2,3-cd)pyrene (low)	93.0	5.0	µg/L	100		93.0	40-140	1.15	20	
2-Methylnaphthalene (low)	88.1	25	µg/L	100		88.1	40-140	2.60	20	
Naphthalene (low)	81.4	25	µg/L	100		81.4	40-140	2.79	20	
Phenanthrene (low)	85.1	1.2	µg/L	100		85.1	40-140	1.66	20	
Pyrene (low)	87.5	25	µg/L	100		87.5	40-140	1.90	20	
Surrogate: Nitrobenzene-d5 (low)	62.4		µg/L	100		62.4	30-130			
Surrogate: 2-Fluorobiphenyl (low)	63.6		µg/L	100		63.6	30-130			
Surrogate: p-Terphenyl-d14 (low)	51.2		µg/L	100		51.2	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123036 - SW-846 3510C										
Blank (B123036-BLK1)										
Prepared: 06/01/15 Analyzed: 06/03/15										
Aroclor-1016	ND	0.20	µg/L							R-05, R-05
Aroclor-1016 [2C]	ND	0.20	µg/L							R-05, R-05
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							R-05, R-05
Aroclor-1260 [2C]	ND	0.20	µg/L							R-05, R-05
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	2.05		µg/L	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.20		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	1.92		µg/L	2.00		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.20		µg/L	2.00		110	30-150			
LCS (B123036-BS1)										
Prepared: 06/01/15 Analyzed: 06/03/15										
Aroclor-1016	0.56	0.20	µg/L	0.500		111	40-140			R-05, R-05
Aroclor-1016 [2C]	0.58	0.20	µg/L	0.500		115	40-140			R-05, R-05
Aroclor-1260	0.58	0.20	µg/L	0.500		115	40-140			R-05, R-05
Aroclor-1260 [2C]	0.64	0.20	µg/L	0.500		127	40-140			R-05, R-05
Surrogate: Decachlorobiphenyl	2.31		µg/L	2.00		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.50		µg/L	2.00		125	30-150			
Surrogate: Tetrachloro-m-xylene	2.09		µg/L	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.37		µg/L	2.00		118	30-150			
LCS Dup (B123036-BSD1)										
Prepared: 06/01/15 Analyzed: 06/03/15										
Aroclor-1016	0.43	0.20	µg/L	0.500		86.7	40-140	24.6	* 20	R-05, R-05
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.9	40-140	20.4	* 20	R-05, R-05
Aroclor-1260	0.41	0.20	µg/L	0.500		82.6	40-140	33.0	* 20	R-05, R-05
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		92.3	40-140	32.1	* 20	R-05, R-05
Surrogate: Decachlorobiphenyl	1.54		µg/L	2.00		77.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.65		µg/L	2.00		82.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.59		µg/L	2.00		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.82		µg/L	2.00		91.0	30-150			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123746 - SW-846 3510C										
Blank (B123746-BLK1)										
Prepared: 06/09/15 Analyzed: 06/15/15										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	0.964		µg/L	2.00		48.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.876		µg/L	2.00		43.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.35		µg/L	2.00		67.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.24		µg/L	2.00		61.9	30-150			
LCS (B123746-BS1)										
Prepared: 06/09/15 Analyzed: 06/15/15										
Aroclor-1016	0.47	0.20	µg/L	0.500		94.1	40-140			
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		91.8	40-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		85.5	40-140			
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		84.5	40-140			
Surrogate: Decachlorobiphenyl	1.30		µg/L	2.00		64.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.17		µg/L	2.00		58.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.33		µg/L	2.00		66.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.21		µg/L	2.00		60.6	30-150			
LCS Dup (B123746-BSD1)										
Prepared: 06/09/15 Analyzed: 06/15/15										
Aroclor-1016	0.47	0.20	µg/L	0.500		93.4	40-140	0.736	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	40-140	11.0	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		97.0	40-140	12.7	20	
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		93.4	40-140	9.99	20	
Surrogate: Decachlorobiphenyl	1.38		µg/L	2.00		69.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.24		µg/L	2.00		62.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.43		µg/L	2.00		71.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		65.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123848 - SW-846 3510C										
Blank (B123848-BLK1)										
Prepared: 06/10/15 Analyzed: 06/11/15										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.38		µg/L	2.00		69.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.50		µg/L	2.00		75.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.48		µg/L	2.00		73.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.66		µg/L	2.00		83.0	30-150			
LCS (B123848-BS1)										
Prepared: 06/10/15 Analyzed: 06/11/15										
Aroclor-1016	0.45	0.20	µg/L	0.500		91.0	40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.0	40-140			
Aroclor-1260	0.46	0.20	µg/L	0.500		91.7	40-140			
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		99.9	40-140			
Surrogate: Decachlorobiphenyl	1.45		µg/L	2.00		72.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.58		µg/L	2.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.43		µg/L	2.00		71.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.60		µg/L	2.00		80.2	30-150			
LCS Dup (B123848-BSD1)										
Prepared: 06/10/15 Analyzed: 06/11/15										
Aroclor-1016	0.52	0.20	µg/L	0.500		105	40-140	14.0	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		112	40-140	15.0	20	
Aroclor-1260	0.52	0.20	µg/L	0.500		104	40-140	12.9	20	
Aroclor-1260 [2C]	0.57	0.20	µg/L	0.500		113	40-140	12.3	20	
Surrogate: Decachlorobiphenyl	1.56		µg/L	2.00		78.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.71		µg/L	2.00		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.59		µg/L	2.00		79.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.80		µg/L	2.00		89.9	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123058 - SW-846 7470A Prep										
Blank (B123058-BLK1)				Prepared: 06/02/15 Analyzed: 06/08/15						
Mercury	ND	0.00010	mg/L							
LCS (B123058-BS1)				Prepared: 06/02/15 Analyzed: 06/08/15						
Mercury	0.00205	0.00010	mg/L	0.00200		102	80-120			
LCS Dup (B123058-BSD1)				Prepared: 06/02/15 Analyzed: 06/08/15						
Mercury	0.00204	0.00010	mg/L	0.00200		102	80-120	0.500	20	
Batch B123099 - SW-846 3005A										
Blank (B123099-BLK1)				Prepared: 06/01/15 Analyzed: 06/02/15						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B123099-BS1)				Prepared: 06/01/15 Analyzed: 06/02/15						
Antimony	270	5.0	µg/L	250		108	80-120			
Arsenic	268	2.0	µg/L	250		107	80-120			
Barium	265	50	µg/L	250		106	80-120			
Beryllium	284	2.0	µg/L	250		114	80-120			
Cadmium	272	2.5	µg/L	250		109	80-120			
Chromium	249	5.0	µg/L	250		99.8	80-120			
Lead	260	5.0	µg/L	250		104	80-120			
Nickel	258	25	µg/L	250		103	80-120			
Selenium	285	25	µg/L	250		114	80-120			
Silver	277	2.5	µg/L	250		111	80-120			
Thallium	249	1.0	µg/L	250		99.8	80-120			
Vanadium	243	25	µg/L	250		97.1	80-120			
Zinc	282	50	µg/L	250		113	80-120			
LCS Dup (B123099-BSD1)				Prepared: 06/01/15 Analyzed: 06/02/15						
Antimony	277	5.0	µg/L	250		111	80-120	2.70	20	
Arsenic	273	2.0	µg/L	250		109	80-120	1.81	20	
Barium	272	50	µg/L	250		109	80-120	2.52	20	
Beryllium	288	2.0	µg/L	250		115	80-120	1.13	20	
Cadmium	281	2.5	µg/L	250		112	80-120	3.12	20	
Chromium	254	5.0	µg/L	250		102	80-120	1.88	20	
Lead	265	5.0	µg/L	250		106	80-120	1.85	20	
Nickel	264	25	µg/L	250		106	80-120	2.26	20	
Selenium	291	25	µg/L	250		116	80-120	1.94	20	
Silver	283	2.5	µg/L	250		113	80-120	2.17	20	
Thallium	255	1.0	µg/L	250		102	80-120	2.06	20	
Vanadium	246	25	µg/L	250		98.2	80-120	1.16	20	
Zinc	288	50	µg/L	250		115	80-120	1.99	20	

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B123136 - SW-846 3005A

Blank (B123136-BLK1)

Prepared: 06/02/15 Analyzed: 06/03/15

Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							

LCS (B123136-BS1)

Prepared: 06/02/15 Analyzed: 06/03/15

Antimony	265	5.0	µg/L	250		106	80-120			
Arsenic	267	2.0	µg/L	250		107	80-120			
Barium	258	50	µg/L	250		103	80-120			
Beryllium	258	2.0	µg/L	250		103	80-120			
Cadmium	267	2.5	µg/L	250		107	80-120			
Chromium	238	5.0	µg/L	250		95.1	80-120			
Lead	253	5.0	µg/L	250		101	80-120			
Nickel	253	25	µg/L	250		101	80-120			
Selenium	279	25	µg/L	250		112	80-120			
Silver	263	2.5	µg/L	250		105	80-120			
Thallium	248	1.0	µg/L	250		99.2	80-120			
Vanadium	231	25	µg/L	250		92.2	80-120			
Zinc	279	50	µg/L	250		112	80-120			

LCS Dup (B123136-BSD1)

Prepared: 06/02/15 Analyzed: 06/03/15

Antimony	268	5.0	µg/L	250		107	80-120	1.46	20	
Arsenic	268	2.0	µg/L	250		107	80-120	0.255	20	
Barium	261	50	µg/L	250		104	80-120	1.01	20	
Beryllium	264	2.0	µg/L	250		106	80-120	2.44	20	
Cadmium	271	2.5	µg/L	250		108	80-120	1.60	20	
Chromium	237	5.0	µg/L	250		94.9	80-120	0.161	20	
Lead	254	5.0	µg/L	250		102	80-120	0.285	20	
Nickel	255	25	µg/L	250		102	80-120	0.692	20	
Selenium	278	25	µg/L	250		111	80-120	0.588	20	
Silver	266	2.5	µg/L	250		106	80-120	1.13	20	
Thallium	248	1.0	µg/L	250		99.3	80-120	0.120	20	
Vanadium	231	25	µg/L	250		92.4	80-120	0.153	20	
Zinc	279	50	µg/L	250		112	80-120	0.136	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122947 - SW-846 7470A Prep										
Blank (B122947-BLK1) Prepared: 06/01/15 Analyzed: 06/04/15										
Mercury	ND	0.00010	mg/L							
LCS (B122947-BS1) Prepared: 06/01/15 Analyzed: 06/04/15										
Mercury	0.00258	0.00010	mg/L	0.00200		129 *	80-120			L-07A
LCS Dup (B122947-BSD1) Prepared: 06/01/15 Analyzed: 06/04/15										
Mercury	0.00204	0.00010	mg/L	0.00200		102	80-120	23.7 *	20	L-07A
Batch B123020 - SW-846 3005A Dissolved										
Blank (B123020-BLK1) Prepared: 06/01/15 Analyzed: 06/02/15										
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B123020-BS1) Prepared: 06/01/15 Analyzed: 06/02/15										
Antimony	261	5.0	µg/L	250		104	80-120			
Arsenic	263	2.0	µg/L	250		105	80-120			
Barium	258	50	µg/L	250		103	80-120			
Beryllium	260	2.0	µg/L	250		104	80-120			
Cadmium	267	2.5	µg/L	250		107	80-120			
Chromium	238	5.0	µg/L	250		95.4	80-120			
Lead	254	5.0	µg/L	250		102	80-120			
Nickel	254	25	µg/L	250		102	80-120			
Selenium	281	25	µg/L	250		113	80-120			
Silver	270	2.5	µg/L	250		108	80-120			
Thallium	245	1.0	µg/L	250		97.9	80-120			
Vanadium	232	25	µg/L	250		92.8	80-120			
Zinc	278	50	µg/L	250		111	80-120			
LCS Dup (B123020-BSD1) Prepared: 06/01/15 Analyzed: 06/02/15										
Antimony	272	5.0	µg/L	250		109	80-120	4.28	20	
Arsenic	271	2.0	µg/L	250		108	80-120	3.23	20	
Barium	269	50	µg/L	250		108	80-120	4.27	20	
Beryllium	270	2.0	µg/L	250		108	80-120	3.53	20	
Cadmium	275	2.5	µg/L	250		110	80-120	3.05	20	
Chromium	245	5.0	µg/L	250		98.1	80-120	2.78	20	
Lead	264	5.0	µg/L	250		106	80-120	3.84	20	
Nickel	259	25	µg/L	250		104	80-120	1.98	20	
Selenium	286	25	µg/L	250		114	80-120	1.62	20	
Silver	279	2.5	µg/L	250		112	80-120	3.20	20	
Thallium	254	1.0	µg/L	250		102	80-120	3.76	20	
Vanadium	237	25	µg/L	250		94.8	80-120	2.15	20	
Zinc	284	50	µg/L	250		114	80-120	2.12	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B123020 - SW-846 3005A Dissolved

Duplicate (B123020-DUP1)

Source: 15E1423-01

Prepared: 06/01/15 Analyzed: 06/02/15

Antimony	ND	1.0	µg/L		ND			NC	20	
Arsenic	ND	0.40	µg/L		ND			NC	20	
Barium	65.2	10	µg/L		64.4			1.23	20	
Beryllium	ND	0.40	µg/L		ND			NC	20	
Cadmium	ND	0.50	µg/L		ND			NC	20	
Chromium	ND	1.0	µg/L		ND			NC	20	
Lead	ND	1.0	µg/L		ND			NC	20	
Nickel	15.6	5.0	µg/L		15.5			0.886	20	
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.50	µg/L		ND			NC	20	
Thallium	ND	0.20	µg/L		ND			NC	20	
Vanadium	ND	5.0	µg/L		ND			NC	20	
Zinc	11.4	10	µg/L		13.2			14.8	20	

Matrix Spike (B123020-MS1)

Source: 15E1423-01

Prepared: 06/01/15 Analyzed: 06/02/15

Antimony	278	5.0	µg/L	250	ND	111		75-125		
Arsenic	273	2.0	µg/L	250	ND	109		75-125		
Barium	335	50	µg/L	250	64.4	108		75-125		
Beryllium	272	2.0	µg/L	250	0.0912	109		75-125		
Cadmium	275	2.5	µg/L	250	0.402	110		75-125		
Chromium	247	5.0	µg/L	250	0.756	98.7		75-125		
Lead	266	5.0	µg/L	250	0.136	106		75-125		
Nickel	277	25	µg/L	250	15.5	105		75-125		
Selenium	284	25	µg/L	250	ND	114		75-125		
Silver	275	2.5	µg/L	250	ND	110		75-125		
Thallium	257	1.0	µg/L	250	ND	103		75-125		
Vanadium	242	25	µg/L	250	ND	96.7		75-125		
Zinc	292	50	µg/L	250	13.2	112		75-125		

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

MW-46

SW-846 8082A

Lab Sample ID: 15E1423-05 Date(s) Analyzed: 06/03/2015 06/03/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	8.1	
	2	0.00	0.00	0.00	8.6	5.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

DUP

Lab Sample ID: 15E1423-07 Date(s) Analyzed: 06/03/2015 06/03/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	8.6	
	2	0.00	0.00	0.00	9.3	7.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

MW-46 - Filtered

Lab Sample ID: 15E1423-09 Date(s) Analyzed: 06/15/2015 06/15/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.73	
	2	0.00	0.00	0.00	0.71	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

DUP - Filtered

SW-846 8082A

Lab Sample ID: 15E1423-10 Date(s) Analyzed: 06/11/2015 06/11/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.82	
	2	0.00	0.00	0.00	0.87	5.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS

Lab Sample ID: B123036-BS1 Date(s) Analyzed: 06/03/2015 06/03/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.56	
	2	0.00	0.00	0.00	0.58	4
Aroclor-1260	1	0.00	0.00	0.00	0.58	
	2	0.00	0.00	0.00	0.64	10

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B123746-BSD1 Date(s) Analyzed: 06/15/2015 06/15/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.47	
	2	0.00	0.00	0.00	0.51	9
Aroclor-1260	1	0.00	0.00	0.00	0.49	
	2	0.00	0.00	0.00	0.47	3

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-10	Analysis was requested after the recommended holding time had passed.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6020A in Water</i>	
Antimony	CT,NH,NY,NC,ME,VA,NJ
Antimony	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Barium	MA,NY,CT,NC,NH,ME,VA,NJ
Barium	CT,NH,NY,NC,ME,VA,NJ
Beryllium	CT,NH,NY,NC,ME,VA,NJ
Beryllium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Silver	CT,NC,NH,NY,ME,VA,NJ
Silver	CT,NH,NY,NC,ME,VA,NJ
Thallium	CT,NH,NY,NC,ME,VA,NJ
Thallium	CT,NH,NY,NC,ME,VA,NJ
Vanadium	CT,NH,NY,NC,ME,VA,NJ
Vanadium	CT,NC,NH,NY,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA,NJ
Mercury	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

CHAIN OF CUSTODY RECORD

15E1423
Rev 04.05.12

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

Company Name: TRC
Address: 650 Suffolk Street
Lowell, MA 01854
Attention: Matt Oliveira

Project # 115058
Client PO#

Project Location: New Bedford, MA
Sampled By: Bryan MacDonald

Project Proposal Provided? (for billing purposes)
 Yes No
proposal date

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
Format: PDF EXCEL GIS
Email: M.Oliveira@trcsolutions.com
Fax #

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Collection	Matrix Date	Grab	Composite	Matrix Conc. Code
01	MW-34R	5/27/15	12:30		GW	<input checked="" type="checkbox"/>		GW
02	MW-43	5/27/15	14:30		GW	<input checked="" type="checkbox"/>		GW
03	MW-44R	5/27/15	17:15		GW	<input checked="" type="checkbox"/>		GW
04	MW-45	5/27/15	18:45		GW	<input checked="" type="checkbox"/>		GW
05	MW-46	5/28/15	8:40		GW	<input checked="" type="checkbox"/>		GW
06	MW-47	5/28/15	11:20		GW	<input checked="" type="checkbox"/>		GW
07	DUP				GW	<input checked="" type="checkbox"/>		GW
	Trip Blank							

ANALYSIS REQUESTED	14	14	14	21	7	7	# of Containers
PCBS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7
PAHS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7
VOCs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7
MCP Metals (Total)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7
MCP Metals (Dissolved)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7

Preservation:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

Container Code:
of Containers
** Preservation
*** Container Code

Dissolved Metals:
 Field Filtered
 Lab to Filter

Cont. Code:
A = amber glass
G = glass
P = plastic
ST = sterile
V = vial
S = summa can
T = tedlar bag
O = other

Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:
Dissolved metals were field filtered using 0.45 micron filter
both total metals and dissolved metals are MCP, not PCB's

Signature: [Signature]
Date: 5/29/15 11:15
Signature: [Signature]
Date: 5/29/15 11:15
Signature: [Signature]
Date: 5/29/15 11:15
Signature: [Signature]
Date: 5/29/15 11:15
Signature: [Signature]
Date: 5/29/15 11:15

Turnaround Time:
7-Day
10-Day
Other RUSH
1/24-Hr
1/48-Hr
1/72-Hr
Require lab approval

Detection Limit Requirements:
Massachusetts: MCP
Connecticut: GW-1, GW-2, GW-3
Other:

Is your project MCP or RCP?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID #

Accredited
NELAC & AIHA-LAP, LLC
WBE/DBE Certified

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com




Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: MJ DATE: 5/29/15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain:
- 3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1°C

- 5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 
 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes No N/A _____
- 9) Do all samples have the proper Base pH: Yes No N/A _____
- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>28</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	<u>14</u>	Non-ConTest Container	
40 mL Vial - type listed below	<u>23</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 23 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	WA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	WA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials:

Date/Time:

Date/Time:

MJ 5/29/15 19:00



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

15E1423
 Rev 04-05-12

39 Spruce Street
 East Longmeadow, MA 01028

Company Name: **TRC**
 Address: **650 Suffolk Street**
Lowell, MA 01854
 Attention: **Matt Oliveira**
 Project Location: **New Bedford, MA**
 Sampled By: **Bryan MacDonald**

Telephone: **978-970-5600**
 Project #: **115058**
 Client PO#: _____

Project Proposal Provided? (for billing purposes)
 Yes No
 proposal date: _____

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Fax #: _____
 Email: **Moliveira@trcsolutions.com**
 Format: PDF EXCEL OGIS OTHER

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code
		Beginning Date/Time	Ending Date/Time			
01	MW-34R	5/27/15	1230		<input checked="" type="checkbox"/>	GW
02	MW-43	5/27/15	1430		<input checked="" type="checkbox"/>	GW
03	MW-44R	5/27/15	1715		<input checked="" type="checkbox"/>	GW
04	MW-45	5/27/15	1845		<input checked="" type="checkbox"/>	GW
05	MW-46	5/28/15	840		<input checked="" type="checkbox"/>	GW
06	MW-47	5/28/15	1120		<input checked="" type="checkbox"/>	GW
07	DUP				<input checked="" type="checkbox"/>	GW
	TOP BLANK					
	MW-40-FILTERED					
	DUP-FILTERED					

Comments:
 Dissolved metals were field filtered using 0.45 micron filter
 Both total metals and dissolved metals are MCP, not RCRA's

Relinquished by: (signature) **Bryan MacDonald** Date/Time: **5/29/15 11:15**

Received by: (signature) **Bryan MacDonald** Date/Time: **5/29/15 11:15**

Accepted by: (signature) **Bryan MacDonald** Date/Time: **5/29/15 11:15**

Resealed by: (signature) **Bryan MacDonald** Date/Time: **5/29/15 11:15**

Turnaround: 7-Day 10-Day Other RUSH 1

Require lab approval: 24-Hr 48-Hr 72-Hr 14-Day

Detection Limit Requirements: **MCP**
 Massachusetts: **GW-1, GW-2, GW-3**

Connecticut: _____

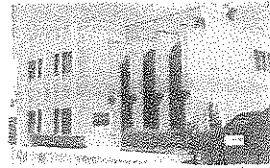
Other: _____

19	14	21	7	7	7	7	# of Containers
I	D	H	M	N			** Preservation
A	A	V	P	P			*** Container Code

ANALYSIS REQUESTED

PCBS	PAHs	VOCs	MW Metals (dissolved)	MW Metals (total)	PCB-Silk prior to extracting
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



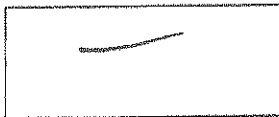
Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: MT DATE: 5/29/15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
If not, explain:
- 3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1°C

- 5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored:  Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes No N/A _____
- 9) Do all samples have the proper Base pH: Yes No N/A _____
- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	28	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	14	Non-ConTest Container	
40 mL Vial - type listed below	23	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 23 # Methanol _____
 Doc# 277 # Bisulfate _____ # DI Water _____
 Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____
 Time and Date Frozen: _____

Login Sample Receipt Checklist
 (Rejection Criteria Listing - Using Sample Acceptance Policy)
 Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013 Who notified of False statements? Date/Time:
 Log-In Technician Initials: Date/Time:
 MJ 5/29/15 19:00

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15E1423

Project Location: New Bedford, MA

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

15E1423-01 thru 15E1423-10

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D (X)	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

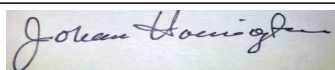
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____



Position: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington

Date: 06/16/15

September 8, 2015

Matt Oliveira
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 15H1305

Enclosed are results of analyses for samples received by the laboratory on August 31, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping 'y' at the end.

Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
 650 Suffolk Street
 Lowell, MA 01852
 ATTN: Matt Oliveira

REPORT DATE: 9/8/2015

PURCHASE ORDER NUMBER: 84852

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15H1305

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-34R	15H1305-01	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-43	15H1305-02	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 6020A

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Silver**

B129873-BS1

SW-846 8260C

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

B130046-BS1, B130046-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

B130046-BS1

RL-07

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Bromomethane**

15H1305-01[MW-34R], 15H1305-02[MW-43]

Carbon Disulfide

15H1305-01[MW-34R], 15H1305-02[MW-43]

Methylene Chloride

15H1305-01[MW-34R], 15H1305-02[MW-43]

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

15H1305-01[MW-34R], 15H1305-02[MW-43], B130046-BLK1, B130046-BS1, B130046-BSD1

SW-846 8270D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:**Phenanthrene (low)**

B130020-BLK1, B130020-BS1, B130020-BSD1

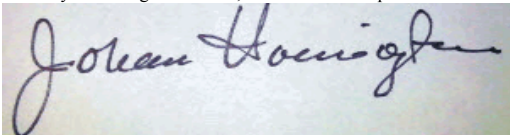
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SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Johanna K. Harrington". The signature is written in a cursive, flowing style.

Johanna K. Harrington
Manager, Laboratory Reporting

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-34R

Sampled: 8/31/2015 13:20

Sample ID: 15H1305-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/3/15	9/4/15 9:35	CMR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-34R

Sampled: 8/31/2015 13:20

Sample ID: 15H1305-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/3/15	9/4/15 9:35	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 9:35	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.1	70-130	9/4/15 9:35
Toluene-d8	100	70-130	9/4/15 9:35
4-Bromofluorobenzene	100	70-130	9/4/15 9:35

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-34R

Sampled: 8/31/2015 13:20

Sample ID: 15H1305-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:15	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		75.3	30-130					9/5/15 16:15	
2-Fluorobiphenyl (low)		68.4	30-130					9/5/15 16:15	
p-Terphenyl-d14 (low)		51.8	30-130					9/5/15 16:15	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-34R

Sampled: 8/31/2015 13:20

Sample ID: 15H1305-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:04	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		55.9	30-150					9/4/15 16:04	
Decachlorobiphenyl [2]		59.2	30-150					9/4/15 16:04	
Tetrachloro-m-xylene [1]		67.5	30-150					9/4/15 16:04	
Tetrachloro-m-xylene [2]		70.4	30-150					9/4/15 16:04	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Sampled: 8/31/2015 13:20

Field Sample #: MW-34R

Sample ID: 15H1305-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Barium	64	50	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/1/15	9/2/15 11:42	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:02	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Sampled: 8/31/2015 13:20

Field Sample #: MW-34R

Sample ID: 15H1305-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Barium	62	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:30	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/1/15	9/2/15 11:56	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:30	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:29	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-43

Sampled: 8/31/2015 15:15

Sample ID: 15H1305-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/3/15	9/4/15 10:01	CMR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-43

Sampled: 8/31/2015 15:15

Sample ID: 15H1305-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/3/15	9/4/15 10:01	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/3/15	9/4/15 10:01	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.1	70-130	9/4/15 10:01
Toluene-d8	101	70-130	9/4/15 10:01
4-Bromofluorobenzene	103	70-130	9/4/15 10:01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-43

Sampled: 8/31/2015 15:15

Sample ID: 15H1305-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 16:44	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		82.9	30-130					9/5/15 16:44	
2-Fluorobiphenyl (low)		69.3	30-130					9/5/15 16:44	
p-Terphenyl-d14 (low)		62.6	30-130					9/5/15 16:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Field Sample #: MW-43

Sampled: 8/31/2015 15:15

Sample ID: 15H1305-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 16:17	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		61.8	30-150					9/4/15 16:17	
Decachlorobiphenyl [2]		65.3	30-150					9/4/15 16:17	
Tetrachloro-m-xylene [1]		63.6	30-150					9/4/15 16:17	
Tetrachloro-m-xylene [2]		66.8	30-150					9/4/15 16:17	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Sampled: 8/31/2015 15:15

Field Sample #: MW-43

Sample ID: 15H1305-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Barium	62	50	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/1/15	9/2/15 11:44	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A	9/1/15	9/3/15 11:05	MJH

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15H1305

Date Received: 8/31/2015

Sampled: 8/31/2015 15:15

Field Sample #: MW-43

Sample ID: 15H1305-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Barium	51	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:33	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/1/15	9/2/15 11:58	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:33	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:32	MJH

Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15H1305-01 [MW-34R]	B129873	50.0	50.0	09/01/15
15H1305-02 [MW-43]	B129873	50.0	50.0	09/01/15

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15H1305-01 [MW-34R]	B129968	50.0	50.0	09/02/15
15H1305-02 [MW-43]	B129968	50.0	50.0	09/02/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15H1305-01 [MW-34R]	B129831	6.00	6.00	09/01/15
15H1305-02 [MW-43]	B129831	6.00	6.00	09/01/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15H1305-01 [MW-34R]	B129833	6.00	6.00	09/01/15
15H1305-02 [MW-43]	B129833	6.00	6.00	09/01/15

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15H1305-01 [MW-34R]	B129915	1000	10.0	09/02/15
15H1305-02 [MW-43]	B129915	1000	10.0	09/02/15

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15H1305-01 [MW-34R]	B130046	5	5.00	09/03/15
15H1305-02 [MW-43]	B130046	5	5.00	09/03/15

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15H1305-01 [MW-34R]	B130020	1000	1.00	09/03/15
15H1305-02 [MW-43]	B130020	1000	1.00	09/03/15

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B130046 - SW-846 5030B

Blank (B130046-BLK1)

Prepared: 09/03/15 Analyzed: 09/04/15

Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B130046 - SW-846 5030B

Blank (B130046-BLK1)

Prepared: 09/03/15 Analyzed: 09/04/15

n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.2		µg/L	25.0		93.0	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

LCS (B130046-BS1)

Prepared: 09/03/15 Analyzed: 09/04/15

Acetone	101	10	µg/L	101		99.8	40-160			†
tert-Amyl Methyl Ether (TAME)	11.3	0.50	µg/L	10.1		111	70-130			
Benzene	11.3	1.0	µg/L	10.1		112	70-130			
Bromobenzene	12.0	1.0	µg/L	10.1		118	70-130			
Bromochloromethane	11.8	1.0	µg/L	10.1		117	70-130			
Bromodichloromethane	11.5	1.0	µg/L	10.1		113	70-130			
Bromoform	11.4	1.0	µg/L	10.1		113	70-130			
Bromomethane	5.08	2.0	µg/L	10.1		50.2	40-160	L-14		†
2-Butanone (MEK)	117	10	µg/L	101		116	40-160			†
n-Butylbenzene	12.0	1.0	µg/L	10.1		119	70-130			
sec-Butylbenzene	12.1	1.0	µg/L	10.1		119	70-130			
tert-Butylbenzene	11.9	1.0	µg/L	10.1		117	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.8	0.50	µg/L	10.1		117	70-130			
Carbon Disulfide	14.0	5.0	µg/L	10.1		138 *	70-130			L-02
Carbon Tetrachloride	11.5	1.0	µg/L	10.1		113	70-130			
Chlorobenzene	12.2	1.0	µg/L	10.1		121	70-130			
Chlorodibromomethane	11.9	0.50	µg/L	10.1		118	70-130			
Chloroethane	9.50	2.0	µg/L	10.1		93.9	70-130			
Chloroform	10.7	2.0	µg/L	10.1		106	70-130			
Chloromethane	6.03	2.0	µg/L	10.1		59.6	40-160	L-14		†
2-Chlorotoluene	12.0	1.0	µg/L	10.1		118	70-130			
4-Chlorotoluene	11.8	1.0	µg/L	10.1		116	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.75	2.0	µg/L	10.1		96.3	70-130			
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.1		119	70-130			
Dibromomethane	11.6	1.0	µg/L	10.1		115	70-130			
1,2-Dichlorobenzene	11.8	1.0	µg/L	10.1		116	70-130			
1,3-Dichlorobenzene	11.9	1.0	µg/L	10.1		118	70-130			
1,4-Dichlorobenzene	12.0	1.0	µg/L	10.1		118	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130046 - SW-846 5030B										
LCS (B130046-BS1)										
					Prepared: 09/03/15 Analyzed: 09/04/15					
Dichlorodifluoromethane (Freon 12)	4.00	2.0	µg/L	10.1		39.5 *	40-160			L-07 †
1,1-Dichloroethane	11.9	1.0	µg/L	10.1		118	70-130			
1,2-Dichloroethane	11.1	1.0	µg/L	10.1		110	70-130			
1,1-Dichloroethylene	11.2	1.0	µg/L	10.1		111	70-130			
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.1		116	70-130			
trans-1,2-Dichloroethylene	11.6	1.0	µg/L	10.1		115	70-130			
1,2-Dichloropropane	11.5	1.0	µg/L	10.1		114	70-130			
1,3-Dichloropropane	11.3	0.50	µg/L	10.1		112	70-130			
2,2-Dichloropropane	8.98	1.0	µg/L	10.1		88.7	70-130			
1,1-Dichloropropene	11.6	0.50	µg/L	10.1		115	70-130			
cis-1,3-Dichloropropene	11.7	0.40	µg/L	10.1		115	70-130			
trans-1,3-Dichloropropene	12.5	0.40	µg/L	10.1		124	70-130			
Diethyl Ether	11.1	2.0	µg/L	10.1		110	70-130			
Diisopropyl Ether (DIPE)	11.5	0.50	µg/L	10.1		114	70-130			
1,4-Dioxane	102	50	µg/L	101		101	40-160			V-16 †
Ethylbenzene	11.8	1.0	µg/L	10.1		116	70-130			
Hexachlorobutadiene	12.3	0.50	µg/L	10.1		121	70-130			
2-Hexanone (MBK)	112	10	µg/L	101		111	40-160			†
Isopropylbenzene (Cumene)	12.1	1.0	µg/L	10.1		120	70-130			
p-Isopropyltoluene (p-Cymene)	12.3	1.0	µg/L	10.1		122	70-130			
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.1		109	70-130			
Methylene Chloride	11.5	5.0	µg/L	10.1		114	70-130			
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	101		110	40-160			†
Naphthalene	10.5	2.0	µg/L	10.1		104	70-130			
n-Propylbenzene	12.3	1.0	µg/L	10.1		122	70-130			
Styrene	12.1	1.0	µg/L	10.1		120	70-130			
1,1,1,2-Tetrachloroethane	12.9	1.0	µg/L	10.1		127	70-130			
1,1,1,2,2-Tetrachloroethane	11.0	0.50	µg/L	10.1		109	70-130			
Tetrachloroethylene	11.8	1.0	µg/L	10.1		116	70-130			
Tetrahydrofuran	11.2	2.0	µg/L	10.1		111	70-130			
Toluene	11.5	1.0	µg/L	10.1		113	70-130			
1,2,3-Trichlorobenzene	11.1	2.0	µg/L	10.1		110	70-130			
1,2,4-Trichlorobenzene	11.8	1.0	µg/L	10.1		117	70-130			
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.1		113	70-130			
1,1,2-Trichloroethane	11.6	1.0	µg/L	10.1		114	70-130			
Trichloroethylene	12.4	1.0	µg/L	10.1		123	70-130			
Trichlorofluoromethane (Freon 11)	9.55	2.0	µg/L	10.1		94.4	70-130			
1,2,3-Trichloropropane	11.7	2.0	µg/L	10.1		116	70-130			
1,2,4-Trimethylbenzene	11.8	1.0	µg/L	10.1		117	70-130			
1,3,5-Trimethylbenzene	11.8	1.0	µg/L	10.1		117	70-130			
Vinyl Chloride	8.97	2.0	µg/L	10.1		88.6	70-130			
m+p Xylene	23.7	2.0	µg/L	20.2		117	70-130			
o-Xylene	11.8	1.0	µg/L	10.1		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.9		µg/L	25.0		95.7	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130046 - SW-846 5030B										
LCS Dup (B130046-BSD1)										
					Prepared: 09/03/15 Analyzed: 09/04/15					
Acetone	97.2	10	µg/L	101		96.0	40-160	3.82	20	†
tert-Amyl Methyl Ether (TAME)	10.9	0.50	µg/L	10.1		108	70-130	3.16	20	
Benzene	11.1	1.0	µg/L	10.1		110	70-130	1.78	20	
Bromobenzene	12.1	1.0	µg/L	10.1		119	70-130	0.999	20	
Bromochloromethane	12.1	1.0	µg/L	10.1		119	70-130	1.84	20	
Bromodichloromethane	11.4	1.0	µg/L	10.1		113	70-130	0.350	20	
Bromoform	11.5	1.0	µg/L	10.1		113	70-130	0.262	20	
Bromomethane	5.51	2.0	µg/L	10.1		54.4	40-160	8.12	20	L-14 †
2-Butanone (MEK)	113	10	µg/L	101		112	40-160	3.51	20	†
n-Butylbenzene	11.9	1.0	µg/L	10.1		117	70-130	1.42	20	
sec-Butylbenzene	11.9	1.0	µg/L	10.1		117	70-130	1.67	20	
tert-Butylbenzene	11.6	1.0	µg/L	10.1		115	70-130	2.47	20	
tert-Butyl Ethyl Ether (TBEE)	11.5	0.50	µg/L	10.1		114	70-130	2.58	20	
Carbon Disulfide	13.5	5.0	µg/L	10.1		133	* 70-130	3.64	20	L-02
Carbon Tetrachloride	11.2	1.0	µg/L	10.1		111	70-130	2.03	20	
Chlorobenzene	11.9	1.0	µg/L	10.1		118	70-130	2.65	20	
Chlorodibromomethane	11.8	0.50	µg/L	10.1		117	70-130	1.26	20	
Chloroethane	9.34	2.0	µg/L	10.1		92.3	70-130	1.70	20	
Chloroform	10.6	2.0	µg/L	10.1		105	70-130	0.751	20	
Chloromethane	5.95	2.0	µg/L	10.1		58.8	40-160	1.34	20	L-14 †
2-Chlorotoluene	12.4	1.0	µg/L	10.1		123	70-130	3.85	20	
4-Chlorotoluene	11.8	1.0	µg/L	10.1		117	70-130	0.424	20	
1,2-Dibromo-3-chloropropane (DBCP)	9.14	2.0	µg/L	10.1		90.3	70-130	6.46	20	
1,2-Dibromoethane (EDB)	11.7	0.50	µg/L	10.1		116	70-130	2.45	20	
Dibromomethane	11.8	1.0	µg/L	10.1		117	70-130	1.19	20	
1,2-Dichlorobenzene	11.6	1.0	µg/L	10.1		115	70-130	1.37	20	
1,3-Dichlorobenzene	11.8	1.0	µg/L	10.1		117	70-130	1.09	20	
1,4-Dichlorobenzene	11.5	1.0	µg/L	10.1		114	70-130	3.92	20	
Dichlorodifluoromethane (Freon 12)	4.13	2.0	µg/L	10.1		40.8	40-160	3.20	20	L-14 †
1,1-Dichloroethane	11.9	1.0	µg/L	10.1		118	70-130	0.168	20	
1,2-Dichloroethane	11.2	1.0	µg/L	10.1		111	70-130	1.43	20	
1,1-Dichloroethylene	11.4	1.0	µg/L	10.1		113	70-130	1.77	20	
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.1		111	70-130	4.61	20	
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.1		108	70-130	5.85	20	
1,2-Dichloropropane	11.6	1.0	µg/L	10.1		114	70-130	0.434	20	
1,3-Dichloropropane	11.3	0.50	µg/L	10.1		112	70-130	0.177	20	
2,2-Dichloropropane	8.77	1.0	µg/L	10.1		86.7	70-130	2.37	20	
1,1-Dichloropropene	11.4	0.50	µg/L	10.1		113	70-130	1.65	20	
cis-1,3-Dichloropropene	11.6	0.40	µg/L	10.1		115	70-130	0.0858	20	
trans-1,3-Dichloropropene	12.5	0.40	µg/L	10.1		124	70-130	0.00	20	
Diethyl Ether	11.3	2.0	µg/L	10.1		112	70-130	1.88	20	
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.1		112	70-130	1.75	20	
1,4-Dioxane	115	50	µg/L	101		114	40-160	11.8	20	V-16 †
Ethylbenzene	11.7	1.0	µg/L	10.1		116	70-130	0.341	20	
Hexachlorobutadiene	11.9	0.50	µg/L	10.1		117	70-130	3.06	20	
2-Hexanone (MBK)	111	10	µg/L	101		109	40-160	1.51	20	†
Isopropylbenzene (Cumene)	12.2	1.0	µg/L	10.1		121	70-130	0.986	20	
p-Isopropyltoluene (p-Cymene)	12.1	1.0	µg/L	10.1		119	70-130	1.88	20	
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.1		109	70-130	0.272	20	
Methylene Chloride	12.0	5.0	µg/L	10.1		119	70-130	4.34	20	
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	101		108	40-160	1.70	20	†
Naphthalene	10.1	2.0	µg/L	10.1		100	70-130	3.49	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130046 - SW-846 5030B										
LCS Dup (B130046-BSD1)										
					Prepared: 09/03/15 Analyzed: 09/04/15					
n-Propylbenzene	12.4	1.0	µg/L	10.1		122	70-130	0.486	20	
Styrene	12.0	1.0	µg/L	10.1		119	70-130	1.08	20	
1,1,1,2-Tetrachloroethane	12.9	1.0	µg/L	10.1		127	70-130	0.311	20	
1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.1		112	70-130	3.49	20	
Tetrachloroethylene	11.6	1.0	µg/L	10.1		114	70-130	1.63	20	
Tetrahydrofuran	11.4	2.0	µg/L	10.1		113	70-130	2.21	20	
Toluene	11.4	1.0	µg/L	10.1		113	70-130	0.350	20	
1,2,3-Trichlorobenzene	10.4	2.0	µg/L	10.1		102	70-130	6.99	20	
1,2,4-Trichlorobenzene	11.5	1.0	µg/L	10.1		113	70-130	3.01	20	
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.1		108	70-130	3.94	20	
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.1		116	70-130	1.37	20	
Trichloroethylene	12.3	1.0	µg/L	10.1		121	70-130	1.30	20	
Trichlorofluoromethane (Freon 11)	9.42	2.0	µg/L	10.1		93.1	70-130	1.37	20	
1,2,3-Trichloropropane	11.6	2.0	µg/L	10.1		114	70-130	1.20	20	
1,2,4-Trimethylbenzene	11.4	1.0	µg/L	10.1		112	70-130	3.80	20	
1,3,5-Trimethylbenzene	12.0	1.0	µg/L	10.1		119	70-130	1.93	20	
Vinyl Chloride	8.41	2.0	µg/L	10.1		83.1	70-130	6.44	20	
m+p Xylene	23.2	2.0	µg/L	20.2		115	70-130	2.09	20	
o-Xylene	11.6	1.0	µg/L	10.1		115	70-130	1.88	20	
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0		95.1	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130020 - SW-846 3510C										
Blank (B130020-BLK1)										
Prepared: 09/03/15 Analyzed: 09/05/15										
Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	0.056	0.050	µg/L							B
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	79.8		µg/L	100		79.8	30-130			
Surrogate: 2-Fluorobiphenyl (low)	73.0		µg/L	100		73.0	30-130			
Surrogate: p-Terphenyl-d14 (low)	67.9		µg/L	100		67.9	30-130			
LCS (B130020-BS1)										
Prepared: 09/03/15 Analyzed: 09/05/15										
Acenaphthene (low)	84.9	7.5	µg/L	100		84.9	40-140			
Acenaphthylene (low)	85.9	7.5	µg/L	100		85.9	40-140			
Anthracene (low)	85.2	5.0	µg/L	100		85.2	40-140			
Benzo(a)anthracene (low)	82.1	1.2	µg/L	100		82.1	40-140			
Benzo(a)pyrene (low)	100	2.5	µg/L	100		100	40-140			
Benzo(b)fluoranthene (low)	100	1.2	µg/L	100		100	40-140			
Benzo(g,h,i)perylene (low)	92.8	12	µg/L	100		92.8	40-140			
Benzo(k)fluoranthene (low)	96.1	5.0	µg/L	100		96.1	40-140			
Chrysene (low)	79.4	5.0	µg/L	100		79.4	40-140			
Dibenz(a,h)anthracene (low)	95.3	5.0	µg/L	100		95.3	40-140			
Fluoranthene (low)	91.0	12	µg/L	100		91.0	40-140			
Fluorene (low)	87.6	25	µg/L	100		87.6	40-140			
Indeno(1,2,3-cd)pyrene (low)	88.5	5.0	µg/L	100		88.5	40-140			
2-Methylnaphthalene (low)	78.4	25	µg/L	100		78.4	40-140			
Naphthalene (low)	75.8	25	µg/L	100		75.8	40-140			
Phenanthrene (low)	84.8	1.2	µg/L	100		84.8	40-140			B
Pyrene (low)	86.5	25	µg/L	100		86.5	40-140			
Surrogate: Nitrobenzene-d5 (low)	47.3		µg/L	100		47.3	30-130			
Surrogate: 2-Fluorobiphenyl (low)	73.9		µg/L	100		73.9	30-130			
Surrogate: p-Terphenyl-d14 (low)	54.9		µg/L	100		54.9	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130020 - SW-846 3510C										
LCS Dup (B130020-BSD1)										
					Prepared: 09/03/15 Analyzed: 09/05/15					
Acenaphthene (low)	96.4	7.5	µg/L	100		96.4	40-140	12.7	20	
Acenaphthylene (low)	96.4	7.5	µg/L	100		96.4	40-140	11.5	20	
Anthracene (low)	94.0	5.0	µg/L	100		94.0	40-140	9.74	20	
Benzo(a)anthracene (low)	90.5	1.2	µg/L	100		90.5	40-140	9.70	20	
Benzo(a)pyrene (low)	111	2.5	µg/L	100		111	40-140	10.2	20	
Benzo(b)fluoranthene (low)	111	1.2	µg/L	100		111	40-140	10.3	20	
Benzo(g,h,i)perylene (low)	103	12	µg/L	100		103	40-140	10.7	20	
Benzo(k)fluoranthene (low)	106	5.0	µg/L	100		106	40-140	9.98	20	
Chrysene (low)	87.7	5.0	µg/L	100		87.7	40-140	9.93	20	
Dibenz(a,h)anthracene (low)	105	5.0	µg/L	100		105	40-140	9.83	20	
Fluoranthene (low)	98.6	12	µg/L	100		98.6	40-140	7.96	20	
Fluorene (low)	94.4	25	µg/L	100		94.4	40-140	7.47	20	
Indeno(1,2,3-cd)pyrene (low)	98.2	5.0	µg/L	100		98.2	40-140	10.3	20	
2-Methylnaphthalene (low)	91.3	25	µg/L	100		91.3	40-140	15.1	20	
Naphthalene (low)	91.2	25	µg/L	100		91.2	40-140	18.5	20	
Phenanthrene (low)	93.7	1.2	µg/L	100		93.7	40-140	10.0	20	B
Pyrene (low)	97.4	25	µg/L	100		97.4	40-140	11.8	20	
Surrogate: Nitrobenzene-d5 (low)	79.5		µg/L	100		79.5	30-130			
Surrogate: 2-Fluorobiphenyl (low)	89.3		µg/L	100		89.3	30-130			
Surrogate: p-Terphenyl-d14 (low)	62.4		µg/L	100		62.4	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B129915 - SW-846 3510C										
Blank (B129915-BLK1)										
Prepared: 09/02/15 Analyzed: 09/04/15										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.23		µg/L	2.00		61.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.31		µg/L	2.00		65.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.44		µg/L	2.00		72.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.52		µg/L	2.00		76.0	30-150			
LCS (B129915-BS1)										
Prepared: 09/02/15 Analyzed: 09/04/15										
Aroclor-1016	0.46	0.20	µg/L	0.500		91.9	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.9	40-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		87.3	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.3	40-140			
Surrogate: Decachlorobiphenyl	1.09		µg/L	2.00		54.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.16		µg/L	2.00		58.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.31		µg/L	2.00		65.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.39		µg/L	2.00		69.5	30-150			
LCS Dup (B129915-BSD1)										
Prepared: 09/02/15 Analyzed: 09/04/15										
Aroclor-1016	0.50	0.20	µg/L	0.500		99.0	40-140	7.48	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	8.80	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		97.2	40-140	10.8	20	
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140	10.6	20	
Surrogate: Decachlorobiphenyl	1.05		µg/L	2.00		52.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.11		µg/L	2.00		55.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.48		µg/L	2.00		74.0	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B129833 - SW-846 7470A Prep										
Blank (B129833-BLK1)				Prepared: 09/01/15 Analyzed: 09/02/15						
Mercury	ND	0.00010	mg/L							
LCS (B129833-BS1)				Prepared: 09/01/15 Analyzed: 09/02/15						
Mercury	0.00179	0.00010	mg/L	0.00200		89.6	80-120			
LCS Dup (B129833-BSD1)				Prepared: 09/01/15 Analyzed: 09/02/15						
Mercury	0.00186	0.00010	mg/L	0.00200		93.1	80-120	3.85	20	
Duplicate (B129833-DUP1)				Source: 15H1305-01			Prepared: 09/01/15 Analyzed: 09/02/15			
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B129833-MS1)				Source: 15H1305-01			Prepared: 09/01/15 Analyzed: 09/02/15			
Mercury	0.00195	0.00010	mg/L	0.00200	0.0000735	93.9	75-125			
Batch B129873 - SW-846 3005A										
Blank (B129873-BLK1)				Prepared: 09/01/15 Analyzed: 09/03/15						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B129873-BS1)				Prepared: 09/01/15 Analyzed: 09/03/15						
Antimony	255	5.0	µg/L	250		102	80-120			
Arsenic	264	2.0	µg/L	250		105	80-120			
Barium	258	50	µg/L	250		103	80-120			
Beryllium	268	2.0	µg/L	250		107	80-120			
Cadmium	270	2.5	µg/L	250		108	80-120			
Chromium	237	5.0	µg/L	250		94.7	80-120			
Lead	250	5.0	µg/L	250		99.9	80-120			
Nickel	244	25	µg/L	250		97.4	80-120			
Selenium	278	25	µg/L	250		111	80-120			
Silver	183	2.5	µg/L	250		73.1 *	80-120			L-07
Thallium	250	1.0	µg/L	250		100	80-120			
Vanadium	233	25	µg/L	250		93.2	80-120			
Zinc	278	50	µg/L	250		111	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B129873 - SW-846 3005A

LCS Dup (B129873-BSD1)

Prepared: 09/01/15 Analyzed: 09/03/15

Antimony	254	5.0	µg/L	250		101	80-120	0.452	20	
Arsenic	262	2.0	µg/L	250		105	80-120	0.453	20	
Barium	254	50	µg/L	250		102	80-120	1.45	20	
Beryllium	269	2.0	µg/L	250		107	80-120	0.157	20	
Cadmium	266	2.5	µg/L	250		107	80-120	1.29	20	
Chromium	234	5.0	µg/L	250		93.5	80-120	1.31	20	
Lead	246	5.0	µg/L	250		98.4	80-120	1.58	20	
Nickel	238	25	µg/L	250		95.3	80-120	2.19	20	
Selenium	278	25	µg/L	250		111	80-120	0.0657	20	
Silver	203	2.5	µg/L	250		81.3	80-120	10.6	20	
Thallium	248	1.0	µg/L	250		99.1	80-120	0.911	20	
Vanadium	233	25	µg/L	250		93.3	80-120	0.103	20	
Zinc	274	50	µg/L	250		110	80-120	1.25	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B129831 - SW-846 7470A Prep										
Blank (B129831-BLK1)				Prepared: 09/01/15 Analyzed: 09/02/15						
Mercury	ND	0.00010	mg/L							
LCS (B129831-BS1)				Prepared: 09/01/15 Analyzed: 09/02/15						
Mercury	0.00222	0.00010	mg/L	0.00200		111	80-120			
LCS Dup (B129831-BSD1)				Prepared: 09/01/15 Analyzed: 09/02/15						
Mercury	0.00186	0.00010	mg/L	0.00200		92.9	80-120	17.7	20	
Duplicate (B129831-DUP1)				Source: 15H1305-01			Prepared: 09/01/15 Analyzed: 09/02/15			
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B129831-MS1)				Source: 15H1305-01			Prepared: 09/01/15 Analyzed: 09/02/15			
Mercury	0.00190	0.00010	mg/L	0.00200	0.0000630	91.9	75-125			
Batch B129968 - SW-846 3005A Dissolved										
Blank (B129968-BLK1)				Prepared: 09/02/15 Analyzed: 09/03/15						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B129968-BS1)				Prepared: 09/02/15 Analyzed: 09/03/15						
Antimony	510	10	µg/L	500		102	80-120			
Arsenic	526	4.0	µg/L	500		105	80-120			
Barium	509	100	µg/L	500		102	80-120			
Beryllium	531	4.0	µg/L	500		106	80-120			
Cadmium	536	5.0	µg/L	500		107	80-120			
Chromium	469	10	µg/L	500		93.9	80-120			
Lead	496	10	µg/L	500		99.3	80-120			
Nickel	474	50	µg/L	500		94.8	80-120			
Selenium	550	50	µg/L	500		110	80-120			
Silver	482	5.0	µg/L	500		96.3	80-120			
Thallium	515	2.0	µg/L	500		103	80-120			
Vanadium	466	50	µg/L	500		93.1	80-120			
Zinc	549	100	µg/L	500		110	80-120			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B129968 - SW-846 3005A Dissolved

LCS Dup (B129968-BSD1)

Prepared: 09/02/15 Analyzed: 09/03/15

Antimony	516	10	µg/L	500		103	80-120	1.26	20	
Arsenic	534	4.0	µg/L	500		107	80-120	1.47	20	
Barium	515	100	µg/L	500		103	80-120	1.26	20	
Beryllium	529	4.0	µg/L	500		106	80-120	0.539	20	
Cadmium	543	5.0	µg/L	500		109	80-120	1.19	20	
Chromium	474	10	µg/L	500		94.8	80-120	1.01	20	
Lead	499	10	µg/L	500		99.8	80-120	0.551	20	
Nickel	481	50	µg/L	500		96.3	80-120	1.57	20	
Selenium	563	50	µg/L	500		113	80-120	2.37	20	
Silver	476	5.0	µg/L	500		95.1	80-120	1.26	20	
Thallium	515	2.0	µg/L	500		103	80-120	0.101	20	
Vanadium	464	50	µg/L	500		92.9	80-120	0.284	20	
Zinc	555	100	µg/L	500		111	80-120	1.09	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B129915-BSD1 Date(s) Analyzed: 09/04/2015 09/04/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.50	
	2	0.00	0.00	0.00	0.51	3
Aroclor-1260	1	0.00	0.00	0.00	0.49	
	2	0.00	0.00	0.00	0.51	5

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6020A in Water</i>	
Antimony	CT,NH,NY,NC,ME,VA,NJ
Antimony	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Barium	MA,NY,CT,NC,NH,ME,VA,NJ
Barium	CT,NH,NY,NC,ME,VA,NJ
Beryllium	CT,NH,NY,NC,ME,VA,NJ
Beryllium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Silver	CT,NC,NH,NY,ME,VA,NJ
Silver	CT,NH,NY,NC,ME,VA,NJ
Thallium	CT,NH,NY,NC,ME,VA,NJ
Thallium	CT,NH,NY,NC,ME,VA,NJ
Vanadium	CT,NH,NY,NC,ME,VA,NJ
Vanadium	CT,NC,NH,NY,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA,NJ
Mercury	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME

CERTIFICATIONS

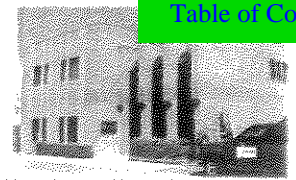
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	09/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: LNP DATE: 8/31/15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain: _____
- 3) Are all the samples in good condition? Yes No
 If not, explain: _____

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.4

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber	4		8 oz amber/clear jar	
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Plastic Bag / Ziploc	
500 mL Plastic			SOC Kit	
250 mL plastic	4		Non-ConTest Container	
40 mL Vial - type listed below	6		Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

Laboratory Comments: _____

40 mL vials: # HCl <u>6</u> # Methanol _____ # Bisulfate _____ # DI Water _____ # Thiosulfate _____ Unpreserved _____	Time and Date Frozen: _____
---	-----------------------------

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>		<u>Comment</u>
	T	F/NA	
1) The cooler's custody seal, if present, is intact.		N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.		N/A	
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.		N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials: LMP

Date/Time:

Date/Time: 8/20/15 1930

September 16, 2015

Matt Oliveira
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 15I0066

Enclosed are results of analyses for samples received by the laboratory on September 1, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping 'y' at the end.

Meghan E. Kelley
Project Manager

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Chain of Custody/Sample Receipt

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
 650 Suffolk Street
 Lowell, MA 01852
 ATTN: Matt Oliveira

REPORT DATE: 9/16/2015

PURCHASE ORDER NUMBER: 84852

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1510066

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-44R	1510066-01	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-45	1510066-02	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-46	1510066-03	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
MW-47	1510066-04	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
DUP	1510066-05	Ground Water		SW-846 6020A SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D	
Trip Blank	1510066-06	Trip Blank Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

For Inorganics analysis, client did not specify QA/QC per MCP.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 6020A

Qualifications:**MS-07**

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Silver**

15I0066-01[MW-44R], B130071-MS1

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:**Arsenic**

15I0066-01[MW-44R], B130071-DUP1

SW-846 8260C

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Bromomethane**

15I0066-01[MW-44R], 15I0066-02[MW-45], 15I0066-03[MW-46], 15I0066-04[MW-47], 15I0066-05[DUP], 15I0066-06[Trip Blank], B130495-BLK1, B130495-BS1, B130495-BSD1

Dichlorodifluoromethane (Freon 1)

15I0066-01[MW-44R], 15I0066-02[MW-45], 15I0066-03[MW-46], 15I0066-04[MW-47], 15I0066-05[DUP], 15I0066-06[Trip Blank], B130495-BLK1, B130495-BS1, B130495-BSD1

RL-07

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

15I0066-01[MW-44R], 15I0066-02[MW-45], 15I0066-03[MW-46], 15I0066-04[MW-47], 15I0066-05[DUP], 15I0066-06[Trip Blank]

Methylene Chloride

15I0066-01[MW-44R], 15I0066-02[MW-45], 15I0066-03[MW-46], 15I0066-04[MW-47], 15I0066-05[DUP], 15I0066-06[Trip Blank]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2-Dichlorobenzene**

15I0066-01[MW-44R], 15I0066-02[MW-45], 15I0066-03[MW-46], 15I0066-04[MW-47], 15I0066-05[DUP], 15I0066-06[Trip Blank], B130495-BLK1, B130495-BS1, B130495-BSD1

Naphthalene

15I0066-01[MW-44R], 15I0066-02[MW-45], 15I0066-03[MW-46], 15I0066-04[MW-47], 15I0066-05[DUP], 15I0066-06[Trip Blank], B130495-BLK1, B130495-BS1, B130495-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

15I0066-01[MW-44R], 15I0066-02[MW-45], 15I0066-03[MW-46], 15I0066-04[MW-47], 15I0066-05[DUP], 15I0066-06[Trip Blank], B130495-BLK1, B130495-BS1, B130495-BSD1

SW-846 8270D

Qualifications:**B**

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:**Phenanthrene (low)**

15I0066-03[MW-46], 15I0066-05[DUP], B130020-BLK1, B130020-BS1, B130020-BSD1

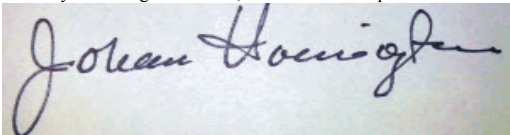
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Johanna K. Harrington". The signature is written in a cursive style and is positioned above a white rectangular box.

Johanna K. Harrington
Manager, Laboratory Reporting

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-44R

Sampled: 8/31/2015 18:50

Sample ID: 1510066-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 13:32	WSD
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2-Dichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-44R

Sampled: 8/31/2015 18:50

Sample ID: 1510066-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 13:32	WSD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 13:32	WSD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:32	WSD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/11/15 13:32
Toluene-d8	102	70-130	9/11/15 13:32
4-Bromofluorobenzene	97.8	70-130	9/11/15 13:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-44R

Sampled: 8/31/2015 18:50

Sample ID: 1510066-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 20:34	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		87.2	30-130					9/5/15 20:34	
2-Fluorobiphenyl (low)		74.6	30-130					9/5/15 20:34	
p-Terphenyl-d14 (low)		57.9	30-130					9/5/15 20:34	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-44R

Sampled: 8/31/2015 18:50

Sample ID: 1510066-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:08	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		62.7	30-150					9/4/15 17:08	
Decachlorobiphenyl [2]		65.7	30-150					9/4/15 17:08	
Tetrachloro-m-xylene [1]		72.8	30-150					9/4/15 17:08	
Tetrachloro-m-xylene [2]		76.3	30-150					9/4/15 17:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-44R

Sampled: 8/31/2015 18:50

Sample ID: 1510066-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Arsenic	0.68	0.40	µg/L	1	R-04	SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Barium	62	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Chromium	6.6	1.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 18:51	MJH
Lead	42	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 11:15	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Silver	ND	0.50	µg/L	1	MS-07	SW-846 6020A	9/3/15	9/10/15 16:11	MJH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	9/3/15	9/15/15 18:51	MJH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 18:51	MJH
Zinc	39	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:11	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-44R

Sampled: 8/31/2015 18:50

Sample ID: 1510066-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Barium	ND	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:36	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 10:52	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:36	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:35	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-45

Sampled: 9/1/2015 11:30

Sample ID: 1510066-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 13:58	WSD
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2-Dichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-45

Sampled: 9/1/2015 11:30

Sample ID: 1510066-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 13:58	WSD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 13:58	WSD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:58	WSD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/11/15 13:58
Toluene-d8	102	70-130	9/11/15 13:58
4-Bromofluorobenzene	97.2	70-130	9/11/15 13:58

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-45

Sampled: 9/1/2015 11:30

Sample ID: 1510066-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:03	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		83.1	30-130					9/5/15 21:03	
2-Fluorobiphenyl (low)		70.8	30-130					9/5/15 21:03	
p-Terphenyl-d14 (low)		55.2	30-130					9/5/15 21:03	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-45

Sampled: 9/1/2015 11:30

Sample ID: 1510066-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:21	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		63.4	30-150					9/4/15 17:21	
Decachlorobiphenyl [2]		66.7	30-150					9/4/15 17:21	
Tetrachloro-m-xylene [1]		70.8	30-150					9/4/15 17:21	
Tetrachloro-m-xylene [2]		73.6	30-150					9/4/15 17:21	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Sampled: 9/1/2015 11:30

Field Sample #: MW-45

Sample ID: 1510066-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Arsenic	0.40	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Barium	30	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Chromium	1.1	1.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:02	MJH
Lead	13	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 11:16	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:02	MJH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:02	MJH
Zinc	62	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:14	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Sampled: 9/1/2015 11:30

Field Sample #: MW-45

Sample ID: 1510066-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Barium	ND	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:40	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 10:54	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:40	WSD
Zinc	59	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:39	MJH

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Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-46

Sampled: 9/1/2015 13:25

Sample ID: 1510066-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 14:25	WSD
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2-Dichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
cis-1,2-Dichloroethylene	2.5	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-46

Sampled: 9/1/2015 13:25

Sample ID: 1510066-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 14:25	WSD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 14:25	WSD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Trichloroethylene	2.0	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:25	WSD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	9/11/15 14:25
Toluene-d8	103	70-130	9/11/15 14:25
4-Bromofluorobenzene	97.2	70-130	9/11/15 14:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Sampled: 9/1/2015 13:25

Field Sample #: MW-46

Sample ID: 1510066-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Phenanthrene (low)	0.12	0.050	µg/L	1	B	SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 21:32	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		78.2	30-130					9/5/15 21:32	
2-Fluorobiphenyl (low)		66.2	30-130					9/5/15 21:32	
p-Terphenyl-d14 (low)		46.5	30-130					9/5/15 21:32	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-46

Sampled: 9/1/2015 13:25

Sample ID: 1510066-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1221 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1232 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1242 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1248 [1]	4.1	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1254 [2]	5.6	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1260 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1262 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Aroclor-1268 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/2/15	9/5/15 12:47	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.4	30-150					9/5/15 12:47	
Decachlorobiphenyl [2]		86.0	30-150					9/5/15 12:47	
Tetrachloro-m-xylene [1]		87.1	30-150					9/5/15 12:47	
Tetrachloro-m-xylene [2]		93.1	30-150					9/5/15 12:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Sampled: 9/1/2015 13:25

Field Sample #: MW-46

Sample ID: 1510066-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Arsenic	0.97	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Barium	78	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:05	MJH
Lead	12	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 11:18	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:05	MJH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:05	MJH
Zinc	33	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:18	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Sampled: 9/1/2015 13:25

Field Sample #: MW-46

Sample ID: 1510066-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Barium	79	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:50	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 10:55	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:50	WSD
Zinc	54	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:42	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-47

Sampled: 9/1/2015 09:15

Sample ID: 1510066-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 14:52	WSD
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2-Dichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-47

Sampled: 9/1/2015 09:15

Sample ID: 1510066-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 14:52	WSD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 14:52	WSD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 14:52	WSD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	9/11/15 14:52
Toluene-d8	102	70-130	9/11/15 14:52
4-Bromofluorobenzene	96.2	70-130	9/11/15 14:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-47

Sampled: 9/1/2015 09:15

Sample ID: 1510066-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:01	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		76.0	30-130					9/5/15 22:01	
2-Fluorobiphenyl (low)		67.7	30-130					9/5/15 22:01	
p-Terphenyl-d14 (low)		50.9	30-130					9/5/15 22:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-47

Sampled: 9/1/2015 09:15

Sample ID: 1510066-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:46	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.6	30-150					9/4/15 17:46	
Decachlorobiphenyl [2]		74.3	30-150					9/4/15 17:46	
Tetrachloro-m-xylene [1]		74.9	30-150					9/4/15 17:46	
Tetrachloro-m-xylene [2]		77.2	30-150					9/4/15 17:46	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-47

Sampled: 9/1/2015 09:15

Sample ID: 1510066-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.2	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Arsenic	0.85	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Barium	90	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Chromium	2.1	1.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:08	MJH
Lead	2.8	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 11:19	SCB
Nickel	6.7	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Selenium	5.5	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:08	MJH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:08	MJH
Zinc	ND	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:21	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: MW-47

Sampled: 9/1/2015 09:15

Sample ID: 1510066-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Barium	89	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:53	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 10:56	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:53	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:45	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: DUP

Sampled: 9/1/2015 00:00

Sample ID: 1510066-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 15:18	WSD
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2-Dichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
cis-1,2-Dichloroethylene	2.8	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: DUP

Sampled: 9/1/2015 00:00

Sample ID: 1510066-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 15:18	WSD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 15:18	WSD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Trichloroethylene	2.2	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 15:18	WSD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	9/11/15 15:18
Toluene-d8	103	70-130	9/11/15 15:18
4-Bromofluorobenzene	97.7	70-130	9/11/15 15:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: DUP

Sampled: 9/1/2015 00:00

Sample ID: 1510066-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Phenanthrene (low)	0.13	0.050	µg/L	1	B	SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	9/3/15	9/5/15 22:30	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (low)		75.6	30-130					9/5/15 22:30	
2-Fluorobiphenyl (low)		64.2	30-130					9/5/15 22:30	
p-Terphenyl-d14 (low)		50.7	30-130					9/5/15 22:30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: DUP

Sampled: 9/1/2015 00:00

Sample ID: 1510066-05

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/15	9/4/15 17:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.2	30-150					9/4/15 17:59	
Decachlorobiphenyl [2]		82.5	30-150					9/4/15 17:59	
Tetrachloro-m-xylene [1]		73.2	30-150					9/4/15 17:59	
Tetrachloro-m-xylene [2]		75.8	30-150					9/4/15 17:59	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: DUP

Sampled: 9/1/2015 00:00

Sample ID: 1510066-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Arsenic	1.0	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Barium	75	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:12	MJH
Lead	12	1.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 11:20	SCB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Silver	ND	0.50	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:12	MJH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	9/3/15	9/15/15 19:12	MJH
Zinc	32	10	µg/L	1		SW-846 6020A	9/3/15	9/10/15 16:24	MJH

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Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: DUP

Sampled: 9/1/2015 00:00

Sample ID: 1510066-05

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Barium	76	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:57	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/2/15	9/3/15 10:58	SCB
Nickel	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A	9/2/15	9/4/15 12:57	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A	9/2/15	9/3/15 15:49	MJH

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Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: Trip Blank

Sampled: 9/1/2015 00:00

Sample ID: 1510066-06

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 13:05	WSD
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2-Dichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	L-04	SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510066

Date Received: 9/1/2015

Field Sample #: Trip Blank

Sampled: 9/1/2015 00:00

Sample ID: 1510066-06

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	9/11/15	9/11/15 13:05	WSD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	9/11/15	9/11/15 13:05	WSD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/11/15	9/11/15 13:05	WSD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	9/11/15 13:05
Toluene-d8	98.3	70-130	9/11/15 13:05
4-Bromofluorobenzene	97.5	70-130	9/11/15 13:05

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-01 [MW-44R]	B129968	50.0	50.0	09/02/15
15I0066-02 [MW-45]	B129968	50.0	50.0	09/02/15
15I0066-03 [MW-46]	B129968	50.0	50.0	09/02/15
15I0066-04 [MW-47]	B129968	50.0	50.0	09/02/15
15I0066-05 [DUP]	B129968	50.0	50.0	09/02/15

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-01 [MW-44R]	B130071	50.0	50.0	09/03/15
15I0066-02 [MW-45]	B130071	50.0	50.0	09/03/15
15I0066-03 [MW-46]	B130071	50.0	50.0	09/03/15
15I0066-04 [MW-47]	B130071	50.0	50.0	09/03/15
15I0066-05 [DUP]	B130071	50.0	50.0	09/03/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-01 [MW-44R]	B129910	6.00	6.00	09/02/15
15I0066-02 [MW-45]	B129910	6.00	6.00	09/02/15
15I0066-03 [MW-46]	B129910	6.00	6.00	09/02/15
15I0066-04 [MW-47]	B129910	6.00	6.00	09/02/15
15I0066-05 [DUP]	B129910	6.00	6.00	09/02/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-01 [MW-44R]	B129911	6.00	6.00	09/02/15
15I0066-02 [MW-45]	B129911	6.00	6.00	09/02/15
15I0066-03 [MW-46]	B129911	6.00	6.00	09/02/15
15I0066-04 [MW-47]	B129911	6.00	6.00	09/02/15
15I0066-05 [DUP]	B129911	6.00	6.00	09/02/15

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-01 [MW-44R]	B129915	1000	10.0	09/02/15
15I0066-02 [MW-45]	B129915	1000	10.0	09/02/15
15I0066-03 [MW-46]	B129915	1000	10.0	09/02/15
15I0066-04 [MW-47]	B129915	1000	10.0	09/02/15
15I0066-05 [DUP]	B129915	1000	10.0	09/02/15

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-01 [MW-44R]	B130495	5	5.00	09/11/15
15I0066-02 [MW-45]	B130495	5	5.00	09/11/15
15I0066-03 [MW-46]	B130495	5	5.00	09/11/15
15I0066-04 [MW-47]	B130495	5	5.00	09/11/15

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Sample Extraction Data**Prep Method: SW-846 5030B-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-05 [DUP]	B130495	5	5.00	09/11/15
15I0066-06 [Trip Blank]	B130495	5	5.00	09/11/15

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0066-01 [MW-44R]	B130020	1000	1.00	09/03/15
15I0066-02 [MW-45]	B130020	1000	1.00	09/03/15
15I0066-03 [MW-46]	B130020	1000	1.00	09/03/15
15I0066-04 [MW-47]	B130020	1000	1.00	09/03/15
15I0066-05 [DUP]	B130020	1000	1.00	09/03/15

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B130495 - SW-846 5030B

Blank (B130495-BLK1)

Prepared & Analyzed: 09/11/15

Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							L-04
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							V-05
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							L-04
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130495 - SW-846 5030B										
Blank (B130495-BLK1)										
Prepared & Analyzed: 09/11/15										
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.3		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.5	70-130			
LCS (B130495-BS1)										
Prepared & Analyzed: 09/11/15										
Acetone	114	10	µg/L	100		114	40-160			†
tert-Amyl Methyl Ether (TAME)	8.36	0.50	µg/L	10.0		83.6	70-130			
Benzene	9.25	1.0	µg/L	10.0		92.5	70-130			
Bromobenzene	8.88	1.0	µg/L	10.0		88.8	70-130			
Bromochloromethane	8.71	1.0	µg/L	10.0		87.1	70-130			
Bromodichloromethane	8.44	1.0	µg/L	10.0		84.4	70-130			
Bromoform	8.49	1.0	µg/L	10.0		84.9	70-130			
Bromomethane	1.51	2.0	µg/L	10.0		15.1 *	40-160			L-04 †
2-Butanone (MEK)	102	10	µg/L	100		102	40-160			†
n-Butylbenzene	8.66	1.0	µg/L	10.0		86.6	70-130			
sec-Butylbenzene	9.26	1.0	µg/L	10.0		92.6	70-130			
tert-Butylbenzene	8.85	1.0	µg/L	10.0		88.5	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.64	0.50	µg/L	10.0		86.4	70-130			
Carbon Disulfide	11.3	5.0	µg/L	10.0		113	70-130			
Carbon Tetrachloride	9.39	1.0	µg/L	10.0		93.9	70-130			
Chlorobenzene	9.52	1.0	µg/L	10.0		95.2	70-130			
Chlorodibromomethane	8.91	0.50	µg/L	10.0		89.1	70-130			
Chloroethane	9.67	2.0	µg/L	10.0		96.7	70-130			
Chloroform	9.24	2.0	µg/L	10.0		92.4	70-130			
Chloromethane	5.21	2.0	µg/L	10.0		52.1	40-160			L-14 †
2-Chlorotoluene	9.33	1.0	µg/L	10.0		93.3	70-130			
4-Chlorotoluene	9.18	1.0	µg/L	10.0		91.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.57	2.0	µg/L	10.0		95.7	70-130			
1,2-Dibromoethane (EDB)	9.49	0.50	µg/L	10.0		94.9	70-130			
Dibromomethane	9.22	1.0	µg/L	10.0		92.2	70-130			
1,2-Dichlorobenzene	8.74	1.0	µg/L	10.0		87.4	70-130			V-05
1,3-Dichlorobenzene	9.18	1.0	µg/L	10.0		91.8	70-130			
1,4-Dichlorobenzene	8.95	1.0	µg/L	10.0		89.5	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130495 - SW-846 5030B										
LCS (B130495-BS1)										
Prepared & Analyzed: 09/11/15										
Dichlorodifluoromethane (Freon 12)	3.06	2.0	µg/L	10.0		30.6 *	40-160			L-04 †
1,1-Dichloroethane	9.26	1.0	µg/L	10.0		92.6	70-130			
1,2-Dichloroethane	8.71	1.0	µg/L	10.0		87.1	70-130			
1,1-Dichloroethylene	8.99	1.0	µg/L	10.0		89.9	70-130			
cis-1,2-Dichloroethylene	9.23	1.0	µg/L	10.0		92.3	70-130			
trans-1,2-Dichloroethylene	8.95	1.0	µg/L	10.0		89.5	70-130			
1,2-Dichloropropane	8.56	1.0	µg/L	10.0		85.6	70-130			
1,3-Dichloropropane	8.97	0.50	µg/L	10.0		89.7	70-130			
2,2-Dichloropropane	8.51	1.0	µg/L	10.0		85.1	70-130			
1,1-Dichloropropene	9.59	0.50	µg/L	10.0		95.9	70-130			
cis-1,3-Dichloropropene	8.92	0.40	µg/L	10.0		89.2	70-130			
trans-1,3-Dichloropropene	9.57	0.40	µg/L	10.0		95.7	70-130			
Diethyl Ether	8.60	2.0	µg/L	10.0		86.0	70-130			
Diisopropyl Ether (DIPE)	8.04	0.50	µg/L	10.0		80.4	70-130			
1,4-Dioxane	75.5	50	µg/L	100		75.5	40-160			V-16 †
Ethylbenzene	9.23	1.0	µg/L	10.0		92.3	70-130			
Hexachlorobutadiene	9.19	0.50	µg/L	10.0		91.9	70-130			
2-Hexanone (MBK)	94.6	10	µg/L	100		94.6	40-160			†
Isopropylbenzene (Cumene)	9.38	1.0	µg/L	10.0		93.8	70-130			
p-Isopropyltoluene (p-Cymene)	9.65	1.0	µg/L	10.0		96.5	70-130			
Methyl tert-Butyl Ether (MTBE)	8.44	1.0	µg/L	10.0		84.4	70-130			
Methylene Chloride	8.54	5.0	µg/L	10.0		85.4	70-130			
4-Methyl-2-pentanone (MIBK)	85.4	10	µg/L	100		85.4	40-160			†
Naphthalene	9.41	2.0	µg/L	10.0		94.1	70-130			V-05
n-Propylbenzene	9.51	1.0	µg/L	10.0		95.1	70-130			
Styrene	9.07	1.0	µg/L	10.0		90.7	70-130			
1,1,1,2-Tetrachloroethane	9.41	1.0	µg/L	10.0		94.1	70-130			
1,1,2,2-Tetrachloroethane	8.11	0.50	µg/L	10.0		81.1	70-130			
Tetrachloroethylene	9.31	1.0	µg/L	10.0		93.1	70-130			
Tetrahydrofuran	9.14	2.0	µg/L	10.0		91.4	70-130			
Toluene	9.24	1.0	µg/L	10.0		92.4	70-130			
1,2,3-Trichlorobenzene	9.50	2.0	µg/L	10.0		95.0	70-130			
1,2,4-Trichlorobenzene	9.16	1.0	µg/L	10.0		91.6	70-130			
1,1,1-Trichloroethane	9.23	1.0	µg/L	10.0		92.3	70-130			
1,1,2-Trichloroethane	9.44	1.0	µg/L	10.0		94.4	70-130			
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
Trichlorofluoromethane (Freon 11)	8.56	2.0	µg/L	10.0		85.6	70-130			
1,2,3-Trichloropropane	9.45	2.0	µg/L	10.0		94.5	70-130			
1,2,4-Trimethylbenzene	8.74	1.0	µg/L	10.0		87.4	70-130			
1,3,5-Trimethylbenzene	9.18	1.0	µg/L	10.0		91.8	70-130			
Vinyl Chloride	10.1	2.0	µg/L	10.0		101	70-130			
m+p Xylene	18.3	2.0	µg/L	20.0		91.3	70-130			
o-Xylene	9.21	1.0	µg/L	10.0		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130495 - SW-846 5030B										
LCS Dup (B130495-BSD1)										
Prepared & Analyzed: 09/11/15										
Acetone	105	10	µg/L	100		105	40-160	8.47	20	†
tert-Amyl Methyl Ether (TAME)	7.95	0.50	µg/L	10.0		79.5	70-130	5.03	20	
Benzene	9.38	1.0	µg/L	10.0		93.8	70-130	1.40	20	
Bromobenzene	8.82	1.0	µg/L	10.0		88.2	70-130	0.678	20	
Bromochloromethane	8.65	1.0	µg/L	10.0		86.5	70-130	0.691	20	
Bromodichloromethane	8.89	1.0	µg/L	10.0		88.9	70-130	5.19	20	
Bromoform	8.22	1.0	µg/L	10.0		82.2	70-130	3.23	20	
Bromomethane	1.35	2.0	µg/L	10.0		13.5 *	40-160	11.2	20	L-04 †
2-Butanone (MEK)	90.5	10	µg/L	100		90.5	40-160	11.7	20	†
n-Butylbenzene	9.10	1.0	µg/L	10.0		91.0	70-130	4.95	20	
sec-Butylbenzene	9.52	1.0	µg/L	10.0		95.2	70-130	2.77	20	
tert-Butylbenzene	9.13	1.0	µg/L	10.0		91.3	70-130	3.11	20	
tert-Butyl Ethyl Ether (TBEE)	8.39	0.50	µg/L	10.0		83.9	70-130	2.94	20	
Carbon Disulfide	11.1	5.0	µg/L	10.0		111	70-130	1.96	20	
Carbon Tetrachloride	9.23	1.0	µg/L	10.0		92.3	70-130	1.72	20	
Chlorobenzene	9.53	1.0	µg/L	10.0		95.3	70-130	0.105	20	
Chlorodibromomethane	8.73	0.50	µg/L	10.0		87.3	70-130	2.04	20	
Chloroethane	9.58	2.0	µg/L	10.0		95.8	70-130	0.935	20	
Chloroform	9.27	2.0	µg/L	10.0		92.7	70-130	0.324	20	
Chloromethane	5.58	2.0	µg/L	10.0		55.8	40-160	6.86	20	L-14 †
2-Chlorotoluene	9.35	1.0	µg/L	10.0		93.5	70-130	0.214	20	
4-Chlorotoluene	9.19	1.0	µg/L	10.0		91.9	70-130	0.109	20	
1,2-Dibromo-3-chloropropane (DBCP)	8.62	2.0	µg/L	10.0		86.2	70-130	10.4	20	
1,2-Dibromoethane (EDB)	9.27	0.50	µg/L	10.0		92.7	70-130	2.35	20	
Dibromomethane	9.08	1.0	µg/L	10.0		90.8	70-130	1.53	20	
1,2-Dichlorobenzene	8.96	1.0	µg/L	10.0		89.6	70-130	2.49	20	V-05
1,3-Dichlorobenzene	9.37	1.0	µg/L	10.0		93.7	70-130	2.05	20	
1,4-Dichlorobenzene	9.20	1.0	µg/L	10.0		92.0	70-130	2.75	20	
Dichlorodifluoromethane (Freon 12)	3.01	2.0	µg/L	10.0		30.1 *	40-160	1.65	20	L-04 †
1,1-Dichloroethane	8.98	1.0	µg/L	10.0		89.8	70-130	3.07	20	
1,2-Dichloroethane	8.67	1.0	µg/L	10.0		86.7	70-130	0.460	20	
1,1-Dichloroethylene	9.09	1.0	µg/L	10.0		90.9	70-130	1.11	20	
cis-1,2-Dichloroethylene	9.18	1.0	µg/L	10.0		91.8	70-130	0.543	20	
trans-1,2-Dichloroethylene	8.85	1.0	µg/L	10.0		88.5	70-130	1.12	20	
1,2-Dichloropropane	8.55	1.0	µg/L	10.0		85.5	70-130	0.117	20	
1,3-Dichloropropane	8.95	0.50	µg/L	10.0		89.5	70-130	0.223	20	
2,2-Dichloropropane	8.12	1.0	µg/L	10.0		81.2	70-130	4.69	20	
1,1-Dichloropropene	9.41	0.50	µg/L	10.0		94.1	70-130	1.89	20	
cis-1,3-Dichloropropene	8.89	0.40	µg/L	10.0		88.9	70-130	0.337	20	
trans-1,3-Dichloropropene	9.54	0.40	µg/L	10.0		95.4	70-130	0.314	20	
Diethyl Ether	8.81	2.0	µg/L	10.0		88.1	70-130	2.41	20	
Diisopropyl Ether (DIPE)	8.11	0.50	µg/L	10.0		81.1	70-130	0.867	20	
1,4-Dioxane	67.8	50	µg/L	100		67.8	40-160	10.8	20	L-14, V-16 †
Ethylbenzene	9.21	1.0	µg/L	10.0		92.1	70-130	0.217	20	
Hexachlorobutadiene	9.69	0.50	µg/L	10.0		96.9	70-130	5.30	20	
2-Hexanone (MBK)	85.5	10	µg/L	100		85.5	40-160	10.2	20	†
Isopropylbenzene (Cumene)	9.40	1.0	µg/L	10.0		94.0	70-130	0.213	20	
p-Isopropyltoluene (p-Cymene)	10.0	1.0	µg/L	10.0		100	70-130	3.56	20	
Methyl tert-Butyl Ether (MTBE)	8.01	1.0	µg/L	10.0		80.1	70-130	5.23	20	
Methylene Chloride	9.08	5.0	µg/L	10.0		90.8	70-130	6.13	20	
4-Methyl-2-pentanone (MIBK)	78.1	10	µg/L	100		78.1	40-160	8.99	20	†
Naphthalene	8.84	2.0	µg/L	10.0		88.4	70-130	6.25	20	V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130495 - SW-846 5030B										
LCS Dup (B130495-BSD1)										
Prepared & Analyzed: 09/11/15										
n-Propylbenzene	9.57	1.0	µg/L	10.0		95.7	70-130	0.629	20	
Styrene	9.25	1.0	µg/L	10.0		92.5	70-130	1.97	20	
1,1,1,2-Tetrachloroethane	9.04	1.0	µg/L	10.0		90.4	70-130	4.01	20	
1,1,2,2-Tetrachloroethane	7.77	0.50	µg/L	10.0		77.7	70-130	4.28	20	
Tetrachloroethylene	9.37	1.0	µg/L	10.0		93.7	70-130	0.642	20	
Tetrahydrofuran	9.10	2.0	µg/L	10.0		91.0	70-130	0.439	20	
Toluene	9.29	1.0	µg/L	10.0		92.9	70-130	0.540	20	
1,2,3-Trichlorobenzene	8.99	2.0	µg/L	10.0		89.9	70-130	5.52	20	
1,2,4-Trichlorobenzene	8.82	1.0	µg/L	10.0		88.2	70-130	3.78	20	
1,1,1-Trichloroethane	9.08	1.0	µg/L	10.0		90.8	70-130	1.64	20	
1,1,2-Trichloroethane	9.46	1.0	µg/L	10.0		94.6	70-130	0.212	20	
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	1.53	20	
Trichlorofluoromethane (Freon 11)	8.59	2.0	µg/L	10.0		85.9	70-130	0.350	20	
1,2,3-Trichloropropane	8.86	2.0	µg/L	10.0		88.6	70-130	6.44	20	
1,2,4-Trimethylbenzene	9.07	1.0	µg/L	10.0		90.7	70-130	3.71	20	
1,3,5-Trimethylbenzene	9.26	1.0	µg/L	10.0		92.6	70-130	0.868	20	
Vinyl Chloride	11.0	2.0	µg/L	10.0		110	70-130	8.61	20	
m+p Xylene	18.3	2.0	µg/L	20.0		91.6	70-130	0.328	20	
o-Xylene	9.19	1.0	µg/L	10.0		91.9	70-130	0.217	20	
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130020 - SW-846 3510C										
Blank (B130020-BLK1)										
Prepared: 09/03/15 Analyzed: 09/05/15										
Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	0.056	0.050	µg/L							B
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	79.8		µg/L	100		79.8	30-130			
Surrogate: 2-Fluorobiphenyl (low)	73.0		µg/L	100		73.0	30-130			
Surrogate: p-Terphenyl-d14 (low)	67.9		µg/L	100		67.9	30-130			
LCS (B130020-BS1)										
Prepared: 09/03/15 Analyzed: 09/05/15										
Acenaphthene (low)	84.9	7.5	µg/L	100		84.9	40-140			
Acenaphthylene (low)	85.9	7.5	µg/L	100		85.9	40-140			
Anthracene (low)	85.2	5.0	µg/L	100		85.2	40-140			
Benzo(a)anthracene (low)	82.1	1.2	µg/L	100		82.1	40-140			
Benzo(a)pyrene (low)	100	2.5	µg/L	100		100	40-140			
Benzo(b)fluoranthene (low)	100	1.2	µg/L	100		100	40-140			
Benzo(g,h,i)perylene (low)	92.8	12	µg/L	100		92.8	40-140			
Benzo(k)fluoranthene (low)	96.1	5.0	µg/L	100		96.1	40-140			
Chrysene (low)	79.4	5.0	µg/L	100		79.4	40-140			
Dibenz(a,h)anthracene (low)	95.3	5.0	µg/L	100		95.3	40-140			
Fluoranthene (low)	91.0	12	µg/L	100		91.0	40-140			
Fluorene (low)	87.6	25	µg/L	100		87.6	40-140			
Indeno(1,2,3-cd)pyrene (low)	88.5	5.0	µg/L	100		88.5	40-140			
2-Methylnaphthalene (low)	78.4	25	µg/L	100		78.4	40-140			
Naphthalene (low)	75.8	25	µg/L	100		75.8	40-140			
Phenanthrene (low)	84.8	1.2	µg/L	100		84.8	40-140			B
Pyrene (low)	86.5	25	µg/L	100		86.5	40-140			
Surrogate: Nitrobenzene-d5 (low)	47.3		µg/L	100		47.3	30-130			
Surrogate: 2-Fluorobiphenyl (low)	73.9		µg/L	100		73.9	30-130			
Surrogate: p-Terphenyl-d14 (low)	54.9		µg/L	100		54.9	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130020 - SW-846 3510C										
LCS Dup (B130020-BSD1)										
					Prepared: 09/03/15 Analyzed: 09/05/15					
Acenaphthene (low)	96.4	7.5	µg/L	100		96.4	40-140	12.7	20	
Acenaphthylene (low)	96.4	7.5	µg/L	100		96.4	40-140	11.5	20	
Anthracene (low)	94.0	5.0	µg/L	100		94.0	40-140	9.74	20	
Benzo(a)anthracene (low)	90.5	1.2	µg/L	100		90.5	40-140	9.70	20	
Benzo(a)pyrene (low)	111	2.5	µg/L	100		111	40-140	10.2	20	
Benzo(b)fluoranthene (low)	111	1.2	µg/L	100		111	40-140	10.3	20	
Benzo(g,h,i)perylene (low)	103	12	µg/L	100		103	40-140	10.7	20	
Benzo(k)fluoranthene (low)	106	5.0	µg/L	100		106	40-140	9.98	20	
Chrysene (low)	87.7	5.0	µg/L	100		87.7	40-140	9.93	20	
Dibenz(a,h)anthracene (low)	105	5.0	µg/L	100		105	40-140	9.83	20	
Fluoranthene (low)	98.6	12	µg/L	100		98.6	40-140	7.96	20	
Fluorene (low)	94.4	25	µg/L	100		94.4	40-140	7.47	20	
Indeno(1,2,3-cd)pyrene (low)	98.2	5.0	µg/L	100		98.2	40-140	10.3	20	
2-Methylnaphthalene (low)	91.3	25	µg/L	100		91.3	40-140	15.1	20	
Naphthalene (low)	91.2	25	µg/L	100		91.2	40-140	18.5	20	
Phenanthrene (low)	93.7	1.2	µg/L	100		93.7	40-140	10.0	20	B
Pyrene (low)	97.4	25	µg/L	100		97.4	40-140	11.8	20	
Surrogate: Nitrobenzene-d5 (low)	79.5		µg/L	100		79.5	30-130			
Surrogate: 2-Fluorobiphenyl (low)	89.3		µg/L	100		89.3	30-130			
Surrogate: p-Terphenyl-d14 (low)	62.4		µg/L	100		62.4	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B129915 - SW-846 3510C										
Blank (B129915-BLK1)										
Prepared: 09/02/15 Analyzed: 09/04/15										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.23		µg/L	2.00		61.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.31		µg/L	2.00		65.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.44		µg/L	2.00		72.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.52		µg/L	2.00		76.0	30-150			
LCS (B129915-BS1)										
Prepared: 09/02/15 Analyzed: 09/04/15										
Aroclor-1016	0.46	0.20	µg/L	0.500		91.9	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.9	40-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		87.3	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.3	40-140			
Surrogate: Decachlorobiphenyl	1.09		µg/L	2.00		54.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.16		µg/L	2.00		58.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.31		µg/L	2.00		65.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.39		µg/L	2.00		69.5	30-150			
LCS Dup (B129915-BSD1)										
Prepared: 09/02/15 Analyzed: 09/04/15										
Aroclor-1016	0.50	0.20	µg/L	0.500		99.0	40-140	7.48	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	8.80	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		97.2	40-140	10.8	20	
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140	10.6	20	
Surrogate: Decachlorobiphenyl	1.05		µg/L	2.00		52.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.11		µg/L	2.00		55.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.48		µg/L	2.00		74.0	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B129911 - SW-846 7470A Prep										
Blank (B129911-BLK1) Prepared: 09/02/15 Analyzed: 09/03/15										
Mercury	ND	0.00010	mg/L							
LCS (B129911-BS1) Prepared: 09/02/15 Analyzed: 09/03/15										
Mercury	0.00162	0.00010	mg/L	0.00200		80.9	80-120			
LCS Dup (B129911-BSD1) Prepared: 09/02/15 Analyzed: 09/03/15										
Mercury	0.00172	0.00010	mg/L	0.00200		85.8	80-120	5.81	20	
Batch B130071 - SW-846 3005A										
Blank (B130071-BLK1) Prepared: 09/03/15 Analyzed: 09/10/15										
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B130071-BS1) Prepared: 09/03/15 Analyzed: 09/10/15										
Antimony	256	5.0	µg/L	250		103	80-120			
Arsenic	253	2.0	µg/L	250		101	80-120			
Barium	249	50	µg/L	250		99.5	80-120			
Beryllium	257	2.0	µg/L	250		103	80-120			
Cadmium	255	2.5	µg/L	250		102	80-120			
Chromium	240	5.0	µg/L	250		96.2	80-120			
Lead	232	5.0	µg/L	250		92.7	80-120			
Nickel	242	25	µg/L	250		96.7	80-120			
Selenium	253	25	µg/L	250		101	80-120			
Silver	236	2.5	µg/L	250		94.3	80-120			
Thallium	233	1.0	µg/L	250		93.2	80-120			
Vanadium	244	25	µg/L	250		97.7	80-120			
Zinc	254	50	µg/L	250		101	80-120			
LCS Dup (B130071-BSD1) Prepared: 09/03/15 Analyzed: 09/10/15										
Antimony	257	5.0	µg/L	250		103	80-120	0.187	20	
Arsenic	256	2.0	µg/L	250		102	80-120	1.02	20	
Barium	250	50	µg/L	250		99.9	80-120	0.399	20	
Beryllium	255	2.0	µg/L	250		102	80-120	0.526	20	
Cadmium	254	2.5	µg/L	250		102	80-120	0.234	20	
Chromium	242	5.0	µg/L	250		96.7	80-120	0.512	20	
Lead	231	5.0	µg/L	250		92.3	80-120	0.445	20	
Nickel	243	25	µg/L	250		97.4	80-120	0.661	20	
Selenium	255	25	µg/L	250		102	80-120	0.712	20	
Silver	233	2.5	µg/L	250		93.3	80-120	1.11	20	
Thallium	232	1.0	µg/L	250		92.7	80-120	0.528	20	
Vanadium	246	25	µg/L	250		98.5	80-120	0.870	20	
Zinc	257	50	µg/L	250		103	80-120	1.47	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B130071 - SW-846 3005A

Duplicate (B130071-DUP1)

Source: 15I0066-01

Prepared: 09/03/15 Analyzed: 09/10/15

Antimony	ND	1.0	µg/L		ND			NC	20	
Arsenic	0.545	0.40	µg/L		0.679			21.8 *	20	R-04
Barium	57.8	10	µg/L		62.0			6.95	20	
Beryllium	ND	0.40	µg/L		ND			NC	20	
Cadmium	ND	0.50	µg/L		ND			NC	20	
Chromium	6.35	1.0	µg/L		6.64			4.42	20	
Lead	39.6	1.0	µg/L		41.7			5.29	20	
Nickel	ND	5.0	µg/L		ND			NC	20	
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.50	µg/L		ND			NC	20	
Thallium	ND	0.20	µg/L		ND			NC	20	
Vanadium	ND	5.0	µg/L		ND			NC	20	
Zinc	37.9	10	µg/L		39.4			3.84	20	

Matrix Spike (B130071-MS1)

Source: 15I0066-01

Prepared: 09/03/15 Analyzed: 09/10/15

Antimony	255	5.0	µg/L	250	0.576	102	75-125			
Arsenic	259	2.0	µg/L	250	0.679	104	75-125			
Barium	302	50	µg/L	250	62.0	96.1	75-125			
Beryllium	239	2.0	µg/L	250	0.135	95.6	75-125			
Cadmium	250	2.5	µg/L	250	0.176	99.8	75-125			
Chromium	245	5.0	µg/L	250	6.64	95.5	75-125			
Lead	268	5.0	µg/L	250	41.7	90.7	75-125			
Nickel	231	25	µg/L	250	4.68	90.6	75-125			
Selenium	265	25	µg/L	250	2.95	106	75-125			
Silver	131	2.5	µg/L	250	ND	52.3 *	75-125			MS-07
Thallium	232	1.0	µg/L	250	ND	92.9	75-125			
Vanadium	242	25	µg/L	250	4.26	96.9	75-125			
Zinc	277	50	µg/L	250	39.4	94.9	75-125			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B129910 - SW-846 7470A Prep										
Blank (B129910-BLK1)				Prepared: 09/02/15 Analyzed: 09/03/15						
Mercury	ND	0.00010	mg/L							
LCS (B129910-BS1)				Prepared: 09/02/15 Analyzed: 09/03/15						
Mercury	0.00177	0.00010	mg/L	0.00200		88.6	80-120			
LCS Dup (B129910-BSD1)				Prepared: 09/02/15 Analyzed: 09/03/15						
Mercury	0.00178	0.00010	mg/L	0.00200		89.0	80-120	0.511	20	
Duplicate (B129910-DUP1)				Source: 15I0066-01			Prepared: 09/02/15 Analyzed: 09/03/15			
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B129910-MS1)				Source: 15I0066-01			Prepared: 09/02/15 Analyzed: 09/03/15			
Mercury	0.00166	0.00010	mg/L	0.00200	0.0000199	82.0	75-125			
Batch B129968 - SW-846 3005A Dissolved										
Blank (B129968-BLK1)				Prepared: 09/02/15 Analyzed: 09/03/15						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B129968-BS1)				Prepared: 09/02/15 Analyzed: 09/03/15						
Antimony	510	10	µg/L	500		102	80-120			
Arsenic	526	4.0	µg/L	500		105	80-120			
Barium	509	100	µg/L	500		102	80-120			
Beryllium	531	4.0	µg/L	500		106	80-120			
Cadmium	536	5.0	µg/L	500		107	80-120			
Chromium	469	10	µg/L	500		93.9	80-120			
Lead	496	10	µg/L	500		99.3	80-120			
Nickel	474	50	µg/L	500		94.8	80-120			
Selenium	550	50	µg/L	500		110	80-120			
Silver	482	5.0	µg/L	500		96.3	80-120			
Thallium	515	2.0	µg/L	500		103	80-120			
Vanadium	466	50	µg/L	500		93.1	80-120			
Zinc	549	100	µg/L	500		110	80-120			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B129968 - SW-846 3005A Dissolved

LCS Dup (B129968-BSD1)

Prepared: 09/02/15 Analyzed: 09/03/15

Antimony	516	10	µg/L	500		103	80-120	1.26	20	
Arsenic	534	4.0	µg/L	500		107	80-120	1.47	20	
Barium	515	100	µg/L	500		103	80-120	1.26	20	
Beryllium	529	4.0	µg/L	500		106	80-120	0.539	20	
Cadmium	543	5.0	µg/L	500		109	80-120	1.19	20	
Chromium	474	10	µg/L	500		94.8	80-120	1.01	20	
Lead	499	10	µg/L	500		99.8	80-120	0.551	20	
Nickel	481	50	µg/L	500		96.3	80-120	1.57	20	
Selenium	563	50	µg/L	500		113	80-120	2.37	20	
Silver	476	5.0	µg/L	500		95.1	80-120	1.26	20	
Thallium	515	2.0	µg/L	500		103	80-120	0.101	20	
Vanadium	464	50	µg/L	500		92.9	80-120	0.284	20	
Zinc	555	100	µg/L	500		111	80-120	1.09	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

MW-46

SW-846 8082A

Lab Sample ID: 1510066-03 Date(s) Analyzed: 09/05/2015 09/05/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1248	1	0.00	0.00	0.00	4.1	
	2	0.00	0.00	0.00	3.7	11.5
Aroclor-1254	1	0.00	0.00	0.00	5.1	
	2	0.00	0.00	0.00	5.6	10.1

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6020A in Water</i>	
Antimony	CT,NH,NY,NC,ME,VA,NJ
Antimony	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Barium	MA,NY,CT,NC,NH,ME,VA,NJ
Barium	CT,NH,NY,NC,ME,VA,NJ
Beryllium	CT,NH,NY,NC,ME,VA,NJ
Beryllium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Silver	CT,NC,NH,NY,ME,VA,NJ
Silver	CT,NH,NY,NC,ME,VA,NJ
Thallium	CT,NH,NY,NC,ME,VA,NJ
Thallium	CT,NH,NY,NC,ME,VA,NJ
Vanadium	CT,NH,NY,NC,ME,VA,NJ
Vanadium	CT,NC,NH,NY,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA,NJ
Mercury	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	09/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 1

Company Name: TRC Environmental
 Address: 650 Suffolk Street
 Lowell, MA 01854
 Attention: Moliveira@resolutions.com
 Project Location: New Bedford, MA
 Sampled By: Bryan McDonald

Telephone: 978-970-5600
 Project # 115058
 Client PO# 84852

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Fax# moliveira@resolutions.com
 Email: moliveira@resolutions.com

Format: PDF EXCEL OGIS
 OTHER
 "Enhanced Data Package"

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code	Cans	Cada
		Beginning Date/Time	Ending Date/Time					
01	MW-44R	8/31/15	18:50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW		
02	MW-45	9/1/15	11:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW		
03	MW-46	9/1/15	13:25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW		
04	MW-47	9/1/15	9:15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW		
05	DUP							
06	Trap Blank							

Comments: **Hold filtered PCB samples - preserved MCP metals and filtered PCBs held filtered with 0.45 micron field filter**

Inquired by: (signature) Date/Time: 9/1/15 12:20
 Approved by: (signature) Date/Time: 9-1-15 16:30
 Prepared by: (signature) Date/Time: 9-1-15 19:25
 Released by: (signature) Date/Time: 9/1/15 19:25

Turnaround 7-Day 10-Day Other
 RUSH 24-Hr 48-Hr 72-Hr 4-Day
 Require lab approval

Detection Limit Requirements
 Massachusetts: MCP
 Connecticut: GW-1, GW-2, GW-3
 Other:

Is your project MCP or RCP?

MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID #



NELAC & AIHA-LAP, LLC
 Accredited
 WBE/DBE Certified

# of Containers	** Preservation	*** Container Code
3	H	V
2	I	A
1	M	P
1	N	A
2	F	P
1	M	A
1	N	A

ANALYSIS REQUESTED
 VCS
 PAHS
 PCBs
 Total MCP Metals
 Dissolved MCP Metals
 PCBs (filtered) (HPLC)

**Cont. Code:
 A=amber glass
 G=glass
 P=plastic
 ST=sterile
 V=vial
 S=Summa can
 T=tedlar bag
 O=Other

**Preservation
 I=iced
 H=HCL
 M=Methanol
 N=Nitric Acid
 S=Sulfuric Acid
 B=Sodium bisulfate
 X=Na hydroxide
 T=Na thiosulfate
 O=Other

*Matrix Code:
 GW=groundwater
 WW=wastewater
 DW=drinking water
 A=air
 S=soil/solid
 SL=sludge
 O=other

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

UNCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.
 CORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR
 PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: TRE Environmental RECEIVED BY: LMP DATE: 9/1/15

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.4

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>21</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	<u>10</u>	Non-ConTest Container	
40 mL Vial - type listed below	<u>17</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 17 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist**(Rejection Criteria Listing - Using Sample Acceptance Policy)****Any False statement will be brought to the attention of Client**

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	N/A		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	N/A		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	T		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials: LMP

Date/Time:

Date/Time: 9/11/15 1925

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15I0066

Project Location: New Bedford, MA

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

15I0066-01 thru 15I0066-06

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D (X)	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

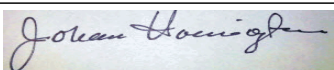
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____



Position: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington

Date: 09/16/15

September 21, 2015

Matt Oliveira
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 15I0091

Enclosed are results of analyses for samples received by the laboratory on September 2, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping 'y' at the end.

Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 9/21/2015

PURCHASE ORDER NUMBER: 84852

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1510091

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-46	1510091-01	Ground Water		SW-846 8082A	
DUP	1510091-03	Ground Water		SW-846 8082A	

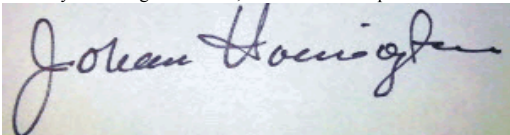
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 9/21/2015 - Sample -03 analyzed and reported per client's request.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Johanna K. Harrington", is written over a light-colored rectangular background.

Johanna K. Harrington
Manager, Laboratory Reporting

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 1510091

Date Received: 9/2/2015

Field Sample #: MW-46

Sampled: 9/1/2015 13:25

Sample ID: 1510091-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/16/15 15:33	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.5	30-150					9/16/15 15:33	
Decachlorobiphenyl [2]		75.6	30-150					9/16/15 15:33	
Tetrachloro-m-xylene [1]		77.4	30-150					9/16/15 15:33	
Tetrachloro-m-xylene [2]		74.7	30-150					9/16/15 15:33	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 1510091

Date Received: 9/2/2015

Field Sample #: DUP

Sampled: 9/1/2015 00:00

Sample ID: 1510091-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1254 [2]	0.28	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/4/15	9/18/15 16:58	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	70.2		30-150				9/18/15 16:58		
Decachlorobiphenyl [2]	80.4		30-150				9/18/15 16:58		
Tetrachloro-m-xylene [1]	70.8		30-150				9/18/15 16:58		
Tetrachloro-m-xylene [2]	80.5		30-150				9/18/15 16:58		

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I0091-01 [MW-46]	B130101	1000	10.0	09/04/15
15I0091-03 [DUP]	B130101	1000	10.0	09/04/15

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B130101 - SW-846 3510C										
Blank (B130101-BLK1)										
Prepared: 09/04/15 Analyzed: 09/09/15										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.11		µg/L	2.00		55.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.09		µg/L	2.00		54.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.28		µg/L	2.00		64.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.28		µg/L	2.00		63.8	30-150			
LCS (B130101-BS1)										
Prepared: 09/04/15 Analyzed: 09/09/15										
Aroclor-1016	0.45	0.20	µg/L	0.500		90.9	40-140			
Aroclor-1016 [2C]	0.41	0.20	µg/L	0.500		81.7	40-140			
Aroclor-1260	0.38	0.20	µg/L	0.500		75.1	40-140			
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		79.3	40-140			
Surrogate: Decachlorobiphenyl	1.35		µg/L	2.00		67.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.33		µg/L	2.00		66.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.31		µg/L	2.00		65.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		65.0	30-150			
LCS Dup (B130101-BSD1)										
Prepared: 09/04/15 Analyzed: 09/09/15										
Aroclor-1016	0.47	0.20	µg/L	0.500		94.3	40-140	3.71	20	
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		98.2	40-140	18.3	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		89.3	40-140	17.2	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.4	40-140	13.1	20	
Surrogate: Decachlorobiphenyl	1.54		µg/L	2.00		77.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.53		µg/L	2.00		76.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/L	2.00		77.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.54		µg/L	2.00		77.1	30-150			

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

DUP

SW-846 8082A

Lab Sample ID: 15I0091-03 Date(s) Analyzed: 09/18/2015 09/18/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.25	
	2	0.00	0.00	0.00	0.28	11.7

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	09/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 1

Company Name: TRC Environmental

Address: 650 Suffolk Street
 Lowell, MA 01854

Attention: moliveira@trcsolutions.com

Project Location: New Bedford, MA

Sampled By: Bryan MacDonald

Telephone: 978-970-5600

Project # 115058

Client PO# 84852

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Fax# moliveira@trcsolutions.com
 Email: moliveira@trcsolutions.com

Project Proposal Provided? (for billing purposes)
 yes no

Format: PDF EXCEL GIS OTHER

Con-Test Lab ID (Reference: see 2013)	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code	Conc Code
		Beginning Date/Time	Ending Date/Time				
01	MW-44R	8/31/15	18:50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW	
02	MW-45	9/1/15	11:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW	
03	MW-46	9/1/15	13:25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW	
04	MW-47	9/1/15	9:15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW	
05	DUP			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW	
06	Trap Blank			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GW	

EXTRACT + HOLD FILTERED PCBs per Bryan M.
 9/2/15

Comments: * Hold filtered PCB samples
 - Dissolved MCP metals and checked PCBs held filtered with 0.45 micron field filter

Relinquished by: (signature) 9/15
 Received by: (signature) 9/15
 Date/Time: 9/15 16:20
 Date/Time: 9/15 19:25
 Date/Time: 9/15 19:25
 Turnaround: 7-Day
 Turnaround: 10-Day
 Turnaround: Other
 RUSH 1
 24-Hr 48-Hr
 72-Hr 14-Day
 Require lab approval

Detection Limit Requirements
 Massachusetts: MCP
 Connecticut:
 Other:

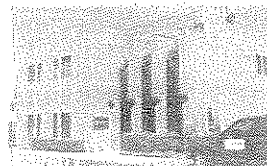
Is your project MCP or RCP?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID #



NELAC & AINAP, LLC
 Accredited

WBE/DBE Certified
 IF THIS FORM IS NOT FILLED OUT COMPLETELY OR
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 East Longmeadow, MA. 01028
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Sample Receipt Checklist

CLIENT NAME: JRC Environmental RECEIVED BY: LMP DATE: 9/1/15

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
 If not, explain:

3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.4

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

14

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>21</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	<u>10</u>	Non-ConTest Container	
40 mL Vial - type listed below	<u>17</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 17 # Methanol _____

Doc# 277 # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist
 (Rejection Criteria Listing - Using Sample Acceptance Policy)
 Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013 Who notified of False statements?
 Log-In Technician Initials: LMP

Date/Time:
 Date/Time: 9/11/15 1925

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15I0091

Project Location: New Bedford, MA

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

15I0091-01 thru 15I0091-03

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM III B ()	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

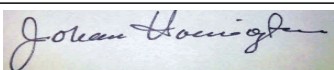
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____



Position: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington

Date: 09/21/15

June 5, 2015

Matt Oliveira
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford, MA
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 15E1416

Enclosed are results of analyses for samples received by the laboratory on May 29, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping "y" at the end.

Meghan E. Kelley
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: Matt Oliveira

REPORT DATE: 6/5/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15E1416

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TREE-3-STUMP	15E1416-01	Product/Solid		SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

Qualifications:**L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Trichlorofluoromethane (Freon 11)**

B122968-BS1, B122968-BSD1

L-14

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:**Acetone**

B122968-BS1, B122968-BSD1

Dichlorodifluoromethane (Freon 12)

B122968-BS1, B122968-BSD1

RL-07

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Bromomethane**

15E1416-01[TREE-3-STUMP]

Carbon Disulfide

15E1416-01[TREE-3-STUMP]

Methylene Chloride

15E1416-01[TREE-3-STUMP]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

15E1416-01[TREE-3-STUMP], B122968-BLK1, B122968-BS1, B122968-BSD1

1,2,4-Trichlorobenzene

15E1416-01[TREE-3-STUMP], B122968-BLK1, B122968-BS1, B122968-BSD1

Naphthalene

15E1416-01[TREE-3-STUMP], B122968-BLK1, B122968-BS1, B122968-BSD1

Tetrahydrofuran

15E1416-01[TREE-3-STUMP], B122968-BLK1, B122968-BS1, B122968-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

15E1416-01[TREE-3-STUMP], B122968-BLK1, B122968-BS1, B122968-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Acetone**

B122968-BS1, B122968-BSD1

Bromomethane

B122968-BS1, B122968-BSD1

Chloromethane

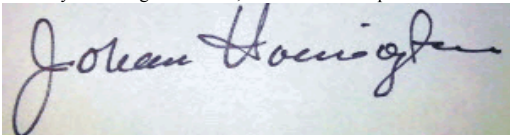
B122968-BS1, B122968-BSD1

Trichlorofluoromethane (Freon 11)

B122968-BS1, B122968-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Johanna K. Harrington", is written over a light-colored rectangular background.

Johanna K. Harrington
Manager, Laboratory Reporting

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1416

Date Received: 5/29/2015

Field Sample #: TREE-3-STUMP

Sampled: 5/28/2015 10:20

Sample ID: 15E1416-01

Sample Matrix: Product/Solid

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Benzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Bromobenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Bromochloromethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Bromodichloromethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Bromoform	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Bromomethane	ND	1.1	mg/Kg wet	1	RL-07	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
2-Butanone (MEK)	ND	4.4	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
n-Butylbenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
sec-Butylbenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
tert-Butylbenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Carbon Disulfide	ND	2.2	mg/Kg wet	1	RL-07	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Carbon Tetrachloride	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Chlorobenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Chlorodibromomethane	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Chloroethane	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Chloroform	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Chloromethane	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
2-Chlorotoluene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
4-Chlorotoluene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.89	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2-Dibromoethane (EDB)	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Dibromomethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2-Dichlorobenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,3-Dichlorobenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,4-Dichlorobenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,1-Dichloroethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2-Dichloroethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,1-Dichloroethylene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
cis-1,2-Dichloroethylene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
trans-1,2-Dichloroethylene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2-Dichloropropane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,3-Dichloropropane	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
2,2-Dichloropropane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,1-Dichloropropene	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
cis-1,3-Dichloropropene	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
trans-1,3-Dichloropropene	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Diethyl Ether	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Diisopropyl Ether (DIPE)	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,4-Dioxane	ND	11	mg/Kg wet	1	V-16	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Ethylbenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1416

Date Received: 5/29/2015

Field Sample #: TREE-3-STUMP

Sampled: 5/28/2015 10:20

Sample ID: 15E1416-01

Sample Matrix: Product/Solid

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
2-Hexanone (MBK)	ND	2.2	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Isopropylbenzene (Cumene)	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Methylene Chloride	ND	1.1	mg/Kg wet	1	RL-07	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	2.2	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Naphthalene	ND	0.44	mg/Kg wet	1	V-05	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
n-Propylbenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Styrene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,1,1,2-Tetrachloroethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.11	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Tetrachloroethylene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Tetrahydrofuran	ND	0.89	mg/Kg wet	1	V-05	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Toluene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2,3-Trichlorobenzene	ND	0.89	mg/Kg wet	1	V-05	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg wet	1	V-05	SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,1,1-Trichloroethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,1,2-Trichloroethane	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Trichloroethylene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Trichlorofluoromethane (Freon 11)	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2,3-Trichloropropane	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,2,4-Trimethylbenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
1,3,5-Trimethylbenzene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
Vinyl Chloride	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
m+p Xylene	ND	0.44	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH
o-Xylene	ND	0.22	mg/Kg wet	1		SW-846 8260C	6/1/15	6/4/15 3:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	117	70-130	6/4/15 3:23
Toluene-d8	101	70-130	6/4/15 3:23
4-Bromofluorobenzene	96.0	70-130	6/4/15 3:23

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1416

Date Received: 5/29/2015

Field Sample #: TREE-3-STUMP

Sampled: 5/28/2015 10:20

Sample ID: 15E1416-01

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Acenaphthylene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Anthracene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Benzo(a)anthracene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Benzo(a)pyrene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Benzo(b)fluoranthene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Benzo(g,h,i)perylene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Benzo(k)fluoranthene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Chrysene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Dibenz(a,h)anthracene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Fluoranthene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Fluorene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Indeno(1,2,3-cd)pyrene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
2-Methylnaphthalene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Naphthalene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Phenanthrene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Pyrene	ND	0.83	mg/Kg	1		SW-846 8270D	6/4/15	6/5/15 11:07	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		82.8	30-130					6/5/15 11:07	
2-Fluorobiphenyl		80.3	30-130					6/5/15 11:07	
p-Terphenyl-d14		87.5	30-130					6/5/15 11:07	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1416

Date Received: 5/29/2015

Field Sample #: TREE-3-STUMP

Sampled: 5/28/2015 10:20

Sample ID: 15E1416-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1254 [1]	0.66	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1260 [2]	0.15	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/1/15	6/4/15 8:20	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	64.8		30-150				6/4/15 8:20		
Decachlorobiphenyl [2]	62.1		30-150				6/4/15 8:20		
Tetrachloro-m-xylene [1]	67.6		30-150				6/4/15 8:20		
Tetrachloro-m-xylene [2]	71.2		30-150				6/4/15 8:20		

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15E1416

Date Received: 5/29/2015

Field Sample #: TREE-3-STUMP

Sampled: 5/28/2015 10:20

Sample ID: 15E1416-01

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg	1		SW-846 6010C	6/4/15	6/5/15 12:52	MJH
Barium	270	2.4	mg/Kg	1		SW-846 6010C	6/4/15	6/5/15 12:52	MJH
Cadmium	0.76	0.24	mg/Kg	1		SW-846 6010C	6/4/15	6/5/15 12:52	MJH
Chromium	1.1	0.49	mg/Kg	1		SW-846 6010C	6/4/15	6/5/15 12:52	MJH
Lead	28	0.73	mg/Kg	1		SW-846 6010C	6/4/15	6/5/15 12:52	MJH
Mercury	0.032	0.024	mg/Kg wet	1		SW-846 7471B	6/3/15	6/4/15 12:25	SCB
Selenium	ND	4.9	mg/Kg	1		SW-846 6010C	6/4/15	6/5/15 12:52	MJH
Silver	ND	0.49	mg/Kg	1		SW-846 6010C	6/4/15	6/5/15 12:52	MJH

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Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15E1416-01 [TREE-3-STUMP]	B123331	1.03	50.0	06/04/15

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15E1416-01 [TREE-3-STUMP]	B123175	0.630	50.0	06/03/15

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15E1416-01 [TREE-3-STUMP]	B123016	2.09	10.0	06/01/15

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
15E1416-01 [TREE-3-STUMP]	B122968	3.38	15.0	1	50	06/01/15

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15E1416-01 [TREE-3-STUMP]	B123385	6.17	1.00	06/04/15

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B122968 - SW-846 5035

Blank (B122968-BLK1)

Prepared: 06/01/15 Analyzed: 06/04/15

Acetone	ND	7.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.075	mg/Kg wet							
Benzene	ND	0.15	mg/Kg wet							
Bromobenzene	ND	0.15	mg/Kg wet							
Bromochloromethane	ND	0.15	mg/Kg wet							
Bromodichloromethane	ND	0.15	mg/Kg wet							
Bromoform	ND	0.15	mg/Kg wet							
Bromomethane	ND	0.75	mg/Kg wet							
2-Butanone (MEK)	ND	3.0	mg/Kg wet							
n-Butylbenzene	ND	0.15	mg/Kg wet							
sec-Butylbenzene	ND	0.15	mg/Kg wet							
tert-Butylbenzene	ND	0.15	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.075	mg/Kg wet							
Carbon Disulfide	ND	1.5	mg/Kg wet							
Carbon Tetrachloride	ND	0.15	mg/Kg wet							
Chlorobenzene	ND	0.15	mg/Kg wet							
Chlorodibromomethane	ND	0.075	mg/Kg wet							
Chloroethane	ND	0.30	mg/Kg wet							
Chloroform	ND	0.30	mg/Kg wet							
Chloromethane	ND	0.30	mg/Kg wet							
2-Chlorotoluene	ND	0.15	mg/Kg wet							
4-Chlorotoluene	ND	0.15	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.60	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.075	mg/Kg wet							
Dibromomethane	ND	0.15	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.15	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.15	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.15	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.30	mg/Kg wet							
1,1-Dichloroethane	ND	0.15	mg/Kg wet							
1,2-Dichloroethane	ND	0.15	mg/Kg wet							
1,1-Dichloroethylene	ND	0.15	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.15	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.15	mg/Kg wet							
1,2-Dichloropropane	ND	0.15	mg/Kg wet							
1,3-Dichloropropane	ND	0.075	mg/Kg wet							
2,2-Dichloropropane	ND	0.15	mg/Kg wet							
1,1-Dichloropropene	ND	0.30	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.075	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.075	mg/Kg wet							
Diethyl Ether	ND	0.30	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.075	mg/Kg wet							
1,4-Dioxane	ND	7.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.15	mg/Kg wet							
Hexachlorobutadiene	ND	0.15	mg/Kg wet							
2-Hexanone (MBK)	ND	1.5	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.15	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.15	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.15	mg/Kg wet							
Methylene Chloride	ND	0.75	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	1.5	mg/Kg wet							
Naphthalene	ND	0.30	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B122968 - SW-846 5035

Blank (B122968-BLK1)

Prepared: 06/01/15 Analyzed: 06/04/15

n-Propylbenzene	ND	0.15	mg/Kg wet							
Styrene	ND	0.15	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.15	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.075	mg/Kg wet							
Tetrachloroethylene	ND	0.15	mg/Kg wet							
Tetrahydrofuran	ND	0.60	mg/Kg wet							V-05
Toluene	ND	0.15	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.60	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.15	mg/Kg wet							V-05
1,1,1-Trichloroethane	ND	0.15	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.15	mg/Kg wet							
Trichloroethylene	ND	0.15	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.30	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.30	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.15	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.15	mg/Kg wet							
Vinyl Chloride	ND	0.30	mg/Kg wet							
m+p Xylene	ND	0.30	mg/Kg wet							
o-Xylene	ND	0.15	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0859		mg/Kg wet	0.0750		115	70-130			
Surrogate: Toluene-d8	0.0788		mg/Kg wet	0.0750		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0719		mg/Kg wet	0.0750		95.9	70-130			

LCS (B122968-BS1)

Prepared: 06/01/15 Analyzed: 06/04/15

Acetone	0.523	0.17	mg/Kg wet	0.340		154	40-160			L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0312	0.0017	mg/Kg wet	0.0340		91.8	70-130			
Benzene	0.0357	0.0034	mg/Kg wet	0.0340		105	70-130			
Bromobenzene	0.0310	0.0034	mg/Kg wet	0.0340		91.2	70-130			
Bromochloromethane	0.0374	0.0034	mg/Kg wet	0.0340		110	70-130			
Bromodichloromethane	0.0330	0.0034	mg/Kg wet	0.0340		97.1	70-130			
Bromoform	0.0334	0.0034	mg/Kg wet	0.0340		98.1	70-130			
Bromomethane	0.0272	0.017	mg/Kg wet	0.0340		80.0	40-160			V-20 †
2-Butanone (MEK)	0.295	0.068	mg/Kg wet	0.340		86.7	40-160			†
n-Butylbenzene	0.0357	0.0034	mg/Kg wet	0.0340		105	70-130			
sec-Butylbenzene	0.0366	0.0034	mg/Kg wet	0.0340		108	70-130			
tert-Butylbenzene	0.0349	0.0034	mg/Kg wet	0.0340		103	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0320	0.0017	mg/Kg wet	0.0340		94.2	70-130			
Carbon Disulfide	0.0407	0.034	mg/Kg wet	0.0340		120	70-130			
Carbon Tetrachloride	0.0389	0.0034	mg/Kg wet	0.0340		114	70-130			
Chlorobenzene	0.0338	0.0034	mg/Kg wet	0.0340		99.5	70-130			
Chlorodibromomethane	0.0312	0.0017	mg/Kg wet	0.0340		91.8	70-130			
Chloroethane	0.0397	0.0068	mg/Kg wet	0.0340		117	70-130			
Chloroform	0.0373	0.0068	mg/Kg wet	0.0340		110	70-130			
Chloromethane	0.0274	0.0068	mg/Kg wet	0.0340		80.6	40-160			V-20 †
2-Chlorotoluene	0.0328	0.0034	mg/Kg wet	0.0340		96.5	70-130			
4-Chlorotoluene	0.0316	0.0034	mg/Kg wet	0.0340		93.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0291	0.014	mg/Kg wet	0.0340		85.5	70-130			
1,2-Dibromoethane (EDB)	0.0347	0.0017	mg/Kg wet	0.0340		102	70-130			
Dibromomethane	0.0364	0.0034	mg/Kg wet	0.0340		107	70-130			
1,2-Dichlorobenzene	0.0337	0.0034	mg/Kg wet	0.0340		99.1	70-130			
1,3-Dichlorobenzene	0.0340	0.0034	mg/Kg wet	0.0340		100	70-130			
1,4-Dichlorobenzene	0.0336	0.0034	mg/Kg wet	0.0340		98.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122968 - SW-846 5035										
LCS (B122968-BS1)										
					Prepared: 06/01/15 Analyzed: 06/04/15					
Dichlorodifluoromethane (Freon 12)	0.0160	0.0068	mg/Kg wet	0.0340		47.0	40-160			L-14 †
1,1-Dichloroethane	0.0344	0.0034	mg/Kg wet	0.0340		101	70-130			
1,2-Dichloroethane	0.0315	0.0034	mg/Kg wet	0.0340		92.6	70-130			
1,1-Dichloroethylene	0.0337	0.0034	mg/Kg wet	0.0340		99.0	70-130			
cis-1,2-Dichloroethylene	0.0334	0.0034	mg/Kg wet	0.0340		98.1	70-130			
trans-1,2-Dichloroethylene	0.0318	0.0034	mg/Kg wet	0.0340		93.5	70-130			
1,2-Dichloropropane	0.0310	0.0034	mg/Kg wet	0.0340		91.1	70-130			
1,3-Dichloropropane	0.0314	0.0017	mg/Kg wet	0.0340		92.5	70-130			
2,2-Dichloropropane	0.0288	0.0034	mg/Kg wet	0.0340		84.6	70-130			
1,1-Dichloropropene	0.0380	0.0068	mg/Kg wet	0.0340		112	70-130			
cis-1,3-Dichloropropene	0.0316	0.0017	mg/Kg wet	0.0340		93.0	70-130			
trans-1,3-Dichloropropene	0.0340	0.0017	mg/Kg wet	0.0340		100	70-130			
Diethyl Ether	0.0439	0.0068	mg/Kg wet	0.0340		129	70-130			
Diisopropyl Ether (DIPE)	0.0299	0.0017	mg/Kg wet	0.0340		87.8	70-130			
1,4-Dioxane	0.326	0.17	mg/Kg wet	0.340		96.0	40-160			V-16 †
Ethylbenzene	0.0337	0.0034	mg/Kg wet	0.0340		99.1	70-130			
Hexachlorobutadiene	0.0276	0.0034	mg/Kg wet	0.0340		81.2	70-130			
2-Hexanone (MBK)	0.281	0.034	mg/Kg wet	0.340		82.6	40-160			†
Isopropylbenzene (Cumene)	0.0345	0.0034	mg/Kg wet	0.0340		102	70-130			
p-Isopropyltoluene (p-Cymene)	0.0341	0.0034	mg/Kg wet	0.0340		100	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0344	0.0034	mg/Kg wet	0.0340		101	70-130			
Methylene Chloride	0.0340	0.017	mg/Kg wet	0.0340		100	70-130			
4-Methyl-2-pentanone (MIBK)	0.282	0.034	mg/Kg wet	0.340		82.8	40-160			†
Naphthalene	0.0313	0.0068	mg/Kg wet	0.0340		92.1	70-130			V-05
n-Propylbenzene	0.0344	0.0034	mg/Kg wet	0.0340		101	70-130			
Styrene	0.0329	0.0034	mg/Kg wet	0.0340		96.8	70-130			
1,1,1,2-Tetrachloroethane	0.0347	0.0034	mg/Kg wet	0.0340		102	70-130			
1,1,1,2,2-Tetrachloroethane	0.0328	0.0017	mg/Kg wet	0.0340		96.5	70-130			
Tetrachloroethylene	0.0292	0.0034	mg/Kg wet	0.0340		86.0	70-130			
Tetrahydrofuran	0.0318	0.014	mg/Kg wet	0.0340		93.4	70-130			V-05
Toluene	0.0330	0.0034	mg/Kg wet	0.0340		97.2	70-130			
1,2,3-Trichlorobenzene	0.0283	0.014	mg/Kg wet	0.0340		83.1	70-130			V-05
1,2,4-Trichlorobenzene	0.0292	0.0034	mg/Kg wet	0.0340		86.0	70-130			V-05
1,1,1-Trichloroethane	0.0384	0.0034	mg/Kg wet	0.0340		113	70-130			
1,1,2-Trichloroethane	0.0327	0.0034	mg/Kg wet	0.0340		96.2	70-130			
Trichloroethylene	0.0333	0.0034	mg/Kg wet	0.0340		98.0	70-130			
Trichlorofluoromethane (Freon 11)	0.0521	0.0068	mg/Kg wet	0.0340		153 *	70-130			L-02, V-20
1,2,3-Trichloropropane	0.0328	0.0068	mg/Kg wet	0.0340		96.4	70-130			
1,2,4-Trimethylbenzene	0.0346	0.0034	mg/Kg wet	0.0340		102	70-130			
1,3,5-Trimethylbenzene	0.0322	0.0034	mg/Kg wet	0.0340		94.8	70-130			
Vinyl Chloride	0.0290	0.0068	mg/Kg wet	0.0340		85.2	70-130			
m+p Xylene	0.0674	0.0068	mg/Kg wet	0.0680		99.1	70-130			
o-Xylene	0.0330	0.0034	mg/Kg wet	0.0340		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0968		mg/Kg wet	0.0850		114	70-130			
Surrogate: Toluene-d8	0.0871		mg/Kg wet	0.0850		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0827		mg/Kg wet	0.0850		97.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122968 - SW-846 5035										
LCS Dup (B122968-BSD1)										
					Prepared: 06/01/15 Analyzed: 06/04/15					
Acetone	0.515	0.17	mg/Kg wet	0.340		151	40-160	1.56	20	L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0312	0.0017	mg/Kg wet	0.0340		91.7	70-130	0.109	20	
Benzene	0.0347	0.0034	mg/Kg wet	0.0340		102	70-130	2.70	20	
Bromobenzene	0.0305	0.0034	mg/Kg wet	0.0340		89.7	70-130	1.66	20	
Bromochloromethane	0.0362	0.0034	mg/Kg wet	0.0340		106	70-130	3.24	20	
Bromodichloromethane	0.0341	0.0034	mg/Kg wet	0.0340		100	70-130	3.14	20	
Bromoform	0.0325	0.0034	mg/Kg wet	0.0340		95.7	70-130	2.48	20	
Bromomethane	0.0323	0.017	mg/Kg wet	0.0340		95.0	40-160	17.1	20	V-20 †
2-Butanone (MEK)	0.290	0.068	mg/Kg wet	0.340		85.3	40-160	1.64	20	†
n-Butylbenzene	0.0388	0.0034	mg/Kg wet	0.0340		114	70-130	8.31	20	
sec-Butylbenzene	0.0388	0.0034	mg/Kg wet	0.0340		114	70-130	5.68	20	
tert-Butylbenzene	0.0363	0.0034	mg/Kg wet	0.0340		107	70-130	3.92	20	
tert-Butyl Ethyl Ether (TBEE)	0.0317	0.0017	mg/Kg wet	0.0340		93.2	70-130	1.07	20	
Carbon Disulfide	0.0386	0.034	mg/Kg wet	0.0340		113	70-130	5.41	20	
Carbon Tetrachloride	0.0379	0.0034	mg/Kg wet	0.0340		112	70-130	2.65	20	
Chlorobenzene	0.0330	0.0034	mg/Kg wet	0.0340		97.0	70-130	2.54	20	
Chlorodibromomethane	0.0326	0.0017	mg/Kg wet	0.0340		95.8	70-130	4.26	20	
Chloroethane	0.0404	0.0068	mg/Kg wet	0.0340		119	70-130	1.70	20	
Chloroform	0.0371	0.0068	mg/Kg wet	0.0340		109	70-130	0.548	20	
Chloromethane	0.0313	0.0068	mg/Kg wet	0.0340		92.1	40-160	13.3	20	V-20 †
2-Chlorotoluene	0.0315	0.0034	mg/Kg wet	0.0340		92.6	70-130	4.12	20	
4-Chlorotoluene	0.0316	0.0034	mg/Kg wet	0.0340		92.9	70-130	0.108	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0313	0.014	mg/Kg wet	0.0340		92.2	70-130	7.54	20	
1,2-Dibromoethane (EDB)	0.0344	0.0017	mg/Kg wet	0.0340		101	70-130	0.984	20	
Dibromomethane	0.0363	0.0034	mg/Kg wet	0.0340		107	70-130	0.281	20	
1,2-Dichlorobenzene	0.0363	0.0034	mg/Kg wet	0.0340		107	70-130	7.57	20	
1,3-Dichlorobenzene	0.0367	0.0034	mg/Kg wet	0.0340		108	70-130	7.41	20	
1,4-Dichlorobenzene	0.0345	0.0034	mg/Kg wet	0.0340		101	70-130	2.60	20	
Dichlorodifluoromethane (Freon 12)	0.0156	0.0068	mg/Kg wet	0.0340		45.8	40-160	2.59	20	L-14 †
1,1-Dichloroethane	0.0344	0.0034	mg/Kg wet	0.0340		101	70-130	0.00	20	
1,2-Dichloroethane	0.0320	0.0034	mg/Kg wet	0.0340		94.2	70-130	1.71	20	
1,1-Dichloroethylene	0.0328	0.0034	mg/Kg wet	0.0340		96.5	70-130	2.56	20	
cis-1,2-Dichloroethylene	0.0323	0.0034	mg/Kg wet	0.0340		94.9	70-130	3.32	20	
trans-1,2-Dichloroethylene	0.0316	0.0034	mg/Kg wet	0.0340		92.8	70-130	0.751	20	
1,2-Dichloropropane	0.0301	0.0034	mg/Kg wet	0.0340		88.6	70-130	2.78	20	
1,3-Dichloropropane	0.0321	0.0017	mg/Kg wet	0.0340		94.4	70-130	2.03	20	
2,2-Dichloropropane	0.0282	0.0034	mg/Kg wet	0.0340		82.8	70-130	2.15	20	
1,1-Dichloropropene	0.0371	0.0068	mg/Kg wet	0.0340		109	70-130	2.53	20	
cis-1,3-Dichloropropene	0.0320	0.0017	mg/Kg wet	0.0340		94.0	70-130	1.07	20	
trans-1,3-Dichloropropene	0.0348	0.0017	mg/Kg wet	0.0340		102	70-130	2.47	20	
Diethyl Ether	0.0431	0.0068	mg/Kg wet	0.0340		127	70-130	1.80	20	
Diisopropyl Ether (DIPE)	0.0289	0.0017	mg/Kg wet	0.0340		85.1	70-130	3.12	20	
1,4-Dioxane	0.284	0.17	mg/Kg wet	0.340		83.6	40-160	13.8	20	V-16 †
Ethylbenzene	0.0332	0.0034	mg/Kg wet	0.0340		97.5	70-130	1.63	20	
Hexachlorobutadiene	0.0304	0.0034	mg/Kg wet	0.0340		89.3	70-130	9.50	20	
2-Hexanone (MBK)	0.276	0.034	mg/Kg wet	0.340		81.1	40-160	1.92	20	†
Isopropylbenzene (Cumene)	0.0337	0.0034	mg/Kg wet	0.0340		99.1	70-130	2.49	20	
p-Isopropyltoluene (p-Cymene)	0.0373	0.0034	mg/Kg wet	0.0340		110	70-130	8.94	20	
Methyl tert-Butyl Ether (MTBE)	0.0333	0.0034	mg/Kg wet	0.0340		98.0	70-130	3.31	20	
Methylene Chloride	0.0341	0.017	mg/Kg wet	0.0340		100	70-130	0.200	20	
4-Methyl-2-pentanone (MIBK)	0.277	0.034	mg/Kg wet	0.340		81.5	40-160	1.66	20	†
Naphthalene	0.0320	0.0068	mg/Kg wet	0.0340		94.1	70-130	2.15	20	V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122968 - SW-846 5035										
LCS Dup (B122968-BSD1)										
					Prepared: 06/01/15 Analyzed: 06/04/15					
n-Propylbenzene	0.0337	0.0034	mg/Kg wet	0.0340		99.2	70-130	2.00	20	
Styrene	0.0321	0.0034	mg/Kg wet	0.0340		94.3	70-130	2.62	20	
1,1,1,2-Tetrachloroethane	0.0337	0.0034	mg/Kg wet	0.0340		99.1	70-130	2.98	20	
1,1,2,2-Tetrachloroethane	0.0317	0.0017	mg/Kg wet	0.0340		93.1	70-130	3.59	20	
Tetrachloroethylene	0.0286	0.0034	mg/Kg wet	0.0340		84.1	70-130	2.23	20	
Tetrahydrofuran	0.0313	0.014	mg/Kg wet	0.0340		92.2	70-130	1.29	20	V-05
Toluene	0.0330	0.0034	mg/Kg wet	0.0340		97.1	70-130	0.103	20	
1,2,3-Trichlorobenzene	0.0296	0.014	mg/Kg wet	0.0340		87.0	70-130	4.59	20	V-05
1,2,4-Trichlorobenzene	0.0303	0.0034	mg/Kg wet	0.0340		89.2	70-130	3.65	20	V-05
1,1,1-Trichloroethane	0.0375	0.0034	mg/Kg wet	0.0340		110	70-130	2.15	20	
1,1,2-Trichloroethane	0.0327	0.0034	mg/Kg wet	0.0340		96.3	70-130	0.104	20	
Trichloroethylene	0.0334	0.0034	mg/Kg wet	0.0340		98.1	70-130	0.102	20	
Trichlorofluoromethane (Freon 11)	0.0525	0.0068	mg/Kg wet	0.0340		154 *	70-130	0.846	20	L-02, V-20
1,2,3-Trichloropropane	0.0313	0.0068	mg/Kg wet	0.0340		92.0	70-130	4.67	20	
1,2,4-Trimethylbenzene	0.0369	0.0034	mg/Kg wet	0.0340		109	70-130	6.56	20	
1,3,5-Trimethylbenzene	0.0318	0.0034	mg/Kg wet	0.0340		93.6	70-130	1.27	20	
Vinyl Chloride	0.0275	0.0068	mg/Kg wet	0.0340		80.8	70-130	5.30	20	
m+p Xylene	0.0660	0.0068	mg/Kg wet	0.0680		97.0	70-130	2.09	20	
o-Xylene	0.0329	0.0034	mg/Kg wet	0.0340		96.9	70-130	0.309	20	
Surrogate: 1,2-Dichloroethane-d4	0.0964		mg/Kg wet	0.0850		113	70-130			
Surrogate: Toluene-d8	0.0888		mg/Kg wet	0.0850		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0827		mg/Kg wet	0.0850		97.2	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B123385 - SW-846 3546

Blank (B123385-BLK1)

Prepared: 06/04/15 Analyzed: 06/05/15

Acenaphthene	ND	0.85	mg/Kg							
Acenaphthylene	ND	0.85	mg/Kg							
Anthracene	ND	0.85	mg/Kg							
Benzo(a)anthracene	ND	0.85	mg/Kg							
Benzo(a)pyrene	ND	0.85	mg/Kg							
Benzo(b)fluoranthene	ND	0.85	mg/Kg							
Benzo(g,h,i)perylene	ND	0.85	mg/Kg							
Benzo(k)fluoranthene	ND	0.85	mg/Kg							
Chrysene	ND	0.85	mg/Kg							
Dibenz(a,h)anthracene	ND	0.85	mg/Kg							
Fluoranthene	ND	0.85	mg/Kg							
Fluorene	ND	0.85	mg/Kg							
Indeno(1,2,3-cd)pyrene	ND	0.85	mg/Kg							
2-Methylnaphthalene	ND	0.85	mg/Kg							
Naphthalene	ND	0.85	mg/Kg							
Phenanthrene	ND	0.85	mg/Kg							
Pyrene	ND	0.85	mg/Kg							
Surrogate: Nitrobenzene-d5	11.7		mg/Kg	16.7		70.3	30-130			
Surrogate: 2-Fluorobiphenyl	12.6		mg/Kg	16.7		75.6	30-130			
Surrogate: p-Terphenyl-d14	17.0		mg/Kg	16.7		102	30-130			

LCS (B123385-BS1)

Prepared: 06/04/15 Analyzed: 06/05/15

Acenaphthene	6.18	0.85	mg/Kg	8.33		74.2	40-140			
Acenaphthylene	6.28	0.85	mg/Kg	8.33		75.4	40-140			
Anthracene	6.25	0.85	mg/Kg	8.33		75.0	40-140			
Benzo(a)anthracene	6.45	0.85	mg/Kg	8.33		77.4	40-140			
Benzo(a)pyrene	6.53	0.85	mg/Kg	8.33		78.4	40-140			
Benzo(b)fluoranthene	6.54	0.85	mg/Kg	8.33		78.5	40-140			
Benzo(g,h,i)perylene	7.28	0.85	mg/Kg	8.33		87.4	40-140			
Benzo(k)fluoranthene	6.62	0.85	mg/Kg	8.33		79.5	40-140			
Chrysene	6.44	0.85	mg/Kg	8.33		77.3	40-140			
Dibenz(a,h)anthracene	7.05	0.85	mg/Kg	8.33		84.6	40-140			
Fluoranthene	6.09	0.85	mg/Kg	8.33		73.1	40-140			
Fluorene	6.37	0.85	mg/Kg	8.33		76.4	40-140			
Indeno(1,2,3-cd)pyrene	7.37	0.85	mg/Kg	8.33		88.5	40-140			
2-Methylnaphthalene	5.83	0.85	mg/Kg	8.33		69.9	40-140			
Naphthalene	5.57	0.85	mg/Kg	8.33		66.8	40-140			
Phenanthrene	6.39	0.85	mg/Kg	8.33		76.7	40-140			
Pyrene	6.92	0.85	mg/Kg	8.33		83.0	40-140			
Surrogate: Nitrobenzene-d5	13.0		mg/Kg	16.7		77.7	30-130			
Surrogate: 2-Fluorobiphenyl	13.8		mg/Kg	16.7		82.6	30-130			
Surrogate: p-Terphenyl-d14	15.2		mg/Kg	16.7		91.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123385 - SW-846 3546										
LCS Dup (B123385-BSD1)										
					Prepared: 06/04/15 Analyzed: 06/05/15					
Acenaphthene	6.90	0.85	mg/Kg	8.33		82.8	40-140	10.9	30	
Acenaphthylene	6.89	0.85	mg/Kg	8.33		82.7	40-140	9.23	30	
Anthracene	6.80	0.85	mg/Kg	8.33		81.6	40-140	8.40	30	
Benzo(a)anthracene	6.92	0.85	mg/Kg	8.33		83.0	40-140	7.01	30	
Benzo(a)pyrene	7.10	0.85	mg/Kg	8.33		85.2	40-140	8.39	30	
Benzo(b)fluoranthene	7.10	0.85	mg/Kg	8.33		85.3	40-140	8.23	30	
Benzo(g,h,i)perylene	8.02	0.85	mg/Kg	8.33		96.3	40-140	9.69	30	
Benzo(k)fluoranthene	7.18	0.85	mg/Kg	8.33		86.2	40-140	8.09	30	
Chrysene	7.07	0.85	mg/Kg	8.33		84.9	40-140	9.35	30	
Dibenz(a,h)anthracene	7.75	0.85	mg/Kg	8.33		93.0	40-140	9.39	30	
Fluoranthene	6.47	0.85	mg/Kg	8.33		77.6	40-140	6.05	30	
Fluorene	7.06	0.85	mg/Kg	8.33		84.7	40-140	10.3	30	
Indeno(1,2,3-cd)pyrene	7.87	0.85	mg/Kg	8.33		94.4	40-140	6.50	30	
2-Methylnaphthalene	6.11	0.85	mg/Kg	8.33		73.3	40-140	4.69	30	
Naphthalene	5.77	0.85	mg/Kg	8.33		69.3	40-140	3.64	30	
Phenanthrene	6.94	0.85	mg/Kg	8.33		83.3	40-140	8.20	30	
Pyrene	7.50	0.85	mg/Kg	8.33		89.9	40-140	8.03	30	
Surrogate: Nitrobenzene-d5	13.7		mg/Kg	16.7		82.1	30-130			
Surrogate: 2-Fluorobiphenyl	14.9		mg/Kg	16.7		89.1	30-130			
Surrogate: p-Terphenyl-d14	17.0		mg/Kg	16.7		102	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B123016 - SW-846 3540C

Blank (B123016-BLK1)

Prepared: 06/01/15 Analyzed: 06/04/15

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.01		mg/Kg	1.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.959		mg/Kg	1.00		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.916		mg/Kg	1.00		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.955		mg/Kg	1.00		95.5	30-150			

LCS (B123016-BS1)

Prepared: 06/01/15 Analyzed: 06/04/15

Aroclor-1016	0.25	0.10	mg/Kg	0.250		100	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		102	40-140			
Surrogate: Decachlorobiphenyl	1.05		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.990		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.937		mg/Kg	1.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.974		mg/Kg	1.00		97.4	30-150			

LCS Dup (B123016-BSD1)

Prepared: 06/01/15 Analyzed: 06/04/15

Aroclor-1016	0.24	0.10	mg/Kg	0.250		96.9	40-140	3.43	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	2.54	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		100	40-140	3.04	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		98.0	40-140	3.82	30	
Surrogate: Decachlorobiphenyl	1.00		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.951		mg/Kg	1.00		95.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.893		mg/Kg	1.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.928		mg/Kg	1.00		92.8	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123175 - SW-846 7471										
Blank (B123175-BLK1) Prepared: 06/03/15 Analyzed: 06/04/15										
Mercury	ND	0.025	mg/Kg wet							
LCS (B123175-BS1) Prepared: 06/03/15 Analyzed: 06/04/15										
Mercury	6.94	0.79	mg/Kg wet	7.10		97.8	73.7-126.3			
LCS Dup (B123175-BSD1) Prepared: 06/03/15 Analyzed: 06/04/15										
Mercury	6.89	0.77	mg/Kg wet	7.10		97.1	73.7-126.3	0.747	30	
Batch B123331 - SW-846 3050B										
Blank (B123331-BLK1) Prepared: 06/04/15 Analyzed: 06/05/15										
Arsenic	ND	2.5	mg/Kg							
Barium	ND	2.5	mg/Kg							
Cadmium	ND	0.25	mg/Kg							
Chromium	ND	0.50	mg/Kg							
Lead	ND	0.75	mg/Kg							
Selenium	ND	5.0	mg/Kg							
Silver	ND	0.50	mg/Kg							
LCS (B123331-BS1) Prepared: 06/04/15 Analyzed: 06/05/15										
Arsenic	97.7	5.0	mg/Kg	98.5		99.2	77.8-122.1			
Barium	300	5.0	mg/Kg	308		97.5	82-117.4			
Cadmium	138	0.50	mg/Kg	146		94.8	81.9-118.2			
Chromium	177	0.99	mg/Kg	182		97.1	78.7-120.6			
Lead	128	1.5	mg/Kg	130		98.6	82.4-117.8			
Selenium	152	9.9	mg/Kg	154		99.0	77.1-122.3			
Silver	36.6	0.99	mg/Kg	40.9		89.5	74.3-125.4			
LCS Dup (B123331-BSD1) Prepared: 06/04/15 Analyzed: 06/05/15										
Arsenic	103	5.0	mg/Kg	98.5		104	77.8-122.1	4.84	30	
Barium	317	5.0	mg/Kg	308		103	82-117.4	5.51	30	
Cadmium	141	0.50	mg/Kg	146		96.3	81.9-118.2	1.57	30	
Chromium	182	1.0	mg/Kg	182		100	78.7-120.6	2.88	30	
Lead	128	1.5	mg/Kg	130		98.8	82.4-117.8	0.267	30	
Selenium	156	10	mg/Kg	154		101	77.1-122.3	2.23	30	
Silver	38.5	1.0	mg/Kg	40.9		94.2	74.3-125.4	5.19	30	
MRL Check (B123331-MRL1) Prepared: 06/04/15 Analyzed: 06/05/15										
Lead	0.747	0.72	mg/Kg	0.720		104	80-120			

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

TREE-3-STUMP

SW-846 8082A

Lab Sample ID: 15E1416-01 Date(s) Analyzed: 06/04/2015 06/04/2015

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	0.00	0.00	0.66	
	2	0.00	0.00	0.00	0.57	14.2
Aroclor-1260	1	0.00	0.00	0.00	0.13	
	2	0.00	0.00	0.00	0.15	15.1

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

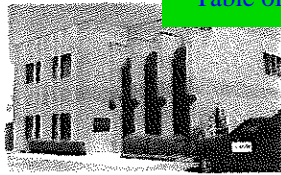
Analyte	Certifications
<i>SW-846 6010C in Product/Solid</i>	
Arsenic	CT,NH,NY,ME,NC,VA,NJ
Barium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,ME,NC,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,NJ
<i>SW-846 8270D in Product/Solid</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA,NJ
Acenaphthylene	CT,NY,NH,ME,NC,VA,NJ
Anthracene	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA,NJ
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA,NJ
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Chrysene	CT,NY,NH,ME,NC,VA,NJ
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA,NJ
Fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Fluorene	CT,NY,NH,ME,NC,VA,NJ
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA,NJ
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA,NJ
Naphthalene	CT,NY,NH,ME,NC,VA,NJ
Phenanthrene	CT,NY,NH,ME,NC,VA,NJ
Pyrene	CT,NY,NH,ME,NC,VA,NJ

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: TBC RECEIVED BY: MS DATE: 5/29/15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
 2) Does the chain agree with the samples? Yes No
 If not, explain:
 3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1°C

- 5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____
 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

7) Location where samples are stored: _____
 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes No N/A _____
 9) Do all samples have the proper Base pH: Yes No N/A _____
 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <input checked="" type="radio"/> amber/clear jar	<u>2</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	<u>4</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
 # Bisulfate _____ # DI Water 2
 # Thiosulfate _____ Unpreserved _____
 Time and Date Frozen: 5/29/15 19:00

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 Rev. 4 August 2013

Log-in Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	F	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

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Who notified of False statements?

Log-In Technician Initials:

Date/Time:

Date/Time:

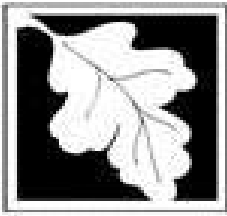
MJ

5/29/15

19:00

APPENDIX F

BILL OF LADING AND MATERIAL SHIPPING RECORD



BILL OF LADING (pursuant to 310 CMR 40.0030)

4 - 15685

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

1. Release Name/Location Aid: PARKER STREET WASTE SITE
2. Street Address: 230 HATHAWAY BLVD
3. City/Town: NEW BEDFORD 4. Zip Code: 027400000
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 one: B1-B4):

1. Submit a **Bill of Lading (BOL)** to transport Remediation Waste to Temporary Storage or a Receiving Facility.
Response Actions associated with this BOL (check all that apply):
 a. Immediate Response Action (IRA) e. Comprehensive Response Actions
 b. Release Abatement Measure (RAM) f. Limited Removal Action (LRA): (must be retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP)
 c. Downgradient Property Status (DPS) g. Other _____
 d. Utility Release Abatement Measure (URAM)
2. Submit an Attestation of Completion of **Shipment to Temporary Storage** (Sections C, F and J are not required):
3. Submit an Attestation of **Completion of Shipment to a Receiving Facility** (Sections C, F and J are not required):
4. Certify that Remediation Waste Was **Not Shipped, and the Bill of Lading is Void**. (Sections C, D, E, and F are not required)
5. Date Bill of Lading submitted to the Department: 5/21/2015 b. eDEP Transaction ID: 742718
(mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading 5/27/2015 to 6/27/2015
(mm/dd/yyyy) (mm/dd/yyyy)

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

The Bill of Lading is not considered complete until the Attestation of Completion of Shipment is received by the Department.

C. DESCRIPTION OF WASTE AND WASTE SOURCE:

1. Contaminated Media/Debris (check all that apply):
 a. Soil b. Groundwater c. Surface Water d. Sediment e. Vegetation or Organic Debris
 f. Demolition/Construction Waste g. Inorganic Absorbent Materials h. Other: _____
2. Uncontainerized Waste (check all that apply):
 a. Inorganic Absorbent Materials b. Other: _____



BILL OF LADING (pursuant to 310 CMR 40.0030)

C. DESCRIPTION OF WASTE AND WASTE SOURCE (cont.):

3. Containerized Waste (check all that apply):

- a. Tank Bottoms/Sludges b. Containers c. Drums d. Engineered Impoundments

e. Other: _____

4. Estimated Quantity: _____ Tons Cu. Yds. Gallons

5. Contaminant Source (check one):

- a. Transportation Accident b. Underground Storage Tank c. Brownfields Redevelopment

d. Other: _____

6. Type of Contaminant (check all that apply):

- a. Gasoline b. Diesel Fuel c. #2 Fuel Oil d. #4 Fuel Oil e. #6 Fuel Oil f. Jet Fuel

g. Waste Oil h. Kerosene i. Chlorinated Solvents j. Urban Fill k. Other: _____

7. Constituents of Concern (check all that apply):

- a. As b. Cd c. Cr d. Pb e. Hg f. EPH/TPH g. VPH

h. PCBs i. VOCs j. SVOCs k. Other: _____

8. If applicable, check the box for the Reportable Concentration Category of the site:

- a. RCS-1 b. RCS-2 c. RCGW-1 d. RCGW-2

9. Remediation Waste Characterization Documentation (check at least one):

- a. Site History Information b. Sampling Analytical Methods and Procedures c. Laboratory Data

d. Field Screening Data e. Characterization Documentation previously submitted to the Department

i. Date submitted: _____ ii. Type of Documentation: _____
(mm/dd/yyyy)

D. TRANSPORTER OR COMMON CARRIER INFORMATION:

1. Transporter/Common Carrier Name: ESMI OF NH

2. Contact First Name: MICHAEL 3. Last Name: PHELPS

4. Street: 67 INTERNATIONAL DRIVE 5. Title: VICE PRESIDENT

6. City/Town: LOUDON 7. State: NH 8. Zip Code: 033070000

9. Telephone: 6037830228 10. Ext: _____ 11. Email: _____



BILL OF LADING (pursuant to 310 CMR 40.0030)

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING (cont.) :

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

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 (MassDEP USE ONLY):

Received by DEP on 8/18/2015 5:24:29 PM



Massachusetts Department of Environmental Protection
 Bureau of Waste Site Cleanup

BWSC 112A

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

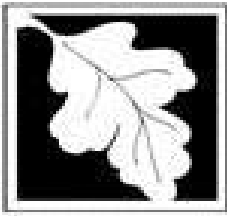
4 - 15685

SUMMARY OF SHIPMENT SHEET 1 OF 1

A. SUMMARY OF SHIPMENT (To be filled out by the receiving facility upon receipt of Remediation Waste):

1. Date of Shipment: (mm/dd/yyyy)	2. Date of Receipt: (mm/dd/yyyy)	3. Number of Loads Shipped:	4. Daily Volume Shipped:	
			Ë yds ³	Ë tons Ë gals
5/28/2015	5/28/2015	1	11.16	
5. Totals Recorded on this Summary of Shipment Sheet:		1	11.16	

Ë Check here if additional BWSC112A BOL Summary of Shipment Sheets are needed.



BILL OF LADING (pursuant to 310 CMR 40.0030)
SUMMARY SHEET SIGNATURE PAGE

A. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE:

1. I, STEVE BENNITT, attest under the pains and penalties or 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: STEVE BENNITT 3. Title: _____

4. For: ESMI OF NH 5. Date: 8/17/2015
(mm/dd/yyyy)

6. Date of Final Shipment associated with this Bill of lading: 5/28/2015
(mm/dd/yyyy)

B. ACKNOWLEDGEMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WASTE BY PERSON CONDUCTING RESPONSE ACTIONS ASSOCIATED WITH THIS BILL OF LADING:

1. I, RAY HOLBERGER, attest under the pains and penalties or 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: RAY HOLBERGER 3. Title: _____

4. For: CITY OF NEW BEDFORD 5. Date: 8/10/2015
(Name of person or entity recorded in Section G) (mm/dd/yyyy)

6. Check here if the address of the person providing certification is different from address recorded in BWSC112 Section G.

7. Street: _____

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

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

14. Check here if attaching optional supporting documentation such as copies of Load Information Summary Sheets



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

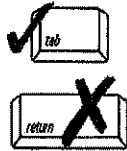
Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

4-15685
Tracking Number

A. Location Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Provide the following information on the location where the waste was generated:

Parker Street Waste Site - Acquired Residential Properties

Release name (optional)

101,102 & 111 Greenwood St. & 98, 108 & 118

Ruggles St.

New Bedford

City/Town

Location aid

MA

State

02740

Zip code

2. Date/Period of generation: May 2015

From

May 2015

To

3. U.S. EPA ID number: _____

4. 21E release: Yes No

5. List additional tracking documents associated with this document:

See attached

B. Generator Information

Important: This form is not to be used for the shipment of remediation wastes subject to management under section 310 CMR 40.0035 of the Massachusetts Contingency Plan nor is it to be used in lieu of a hazardous waste manifest for hazardous waste or recyclable materials subject to the Massachusetts Hazardous Waste Regulations 310 CMR 30.000.

1. Provide the following generator information:

City of New Bedford

Name of organization

Ray Holberger

Contact name

Environmental Planner

Title

133 William Street

Street address

New Bedford

City/Town

MA

State

02740

Zip code

508-979-1527

Telephone number(including extension)

C. Owner and/or Operator Information

1. If the owner and/or operator is different from the generator as indicated in Section B, provide the following information:

Check applicable: owner operator

Name of organization

Contact name

Title

Street address

City/Town

State

Zip code

Telephone number

Ext.



Massachusetts Department of Environmental Protection
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Tracking Number

D. Transporter/Common Carrier Information

1. Provide the following information:

City of New Bedford - Department of Public Infrastructure (DPI)

Transporter/Common carrier name

Hazardous waste license number (if applicable)

Ron Labelle / Zeb Arruda

Contact person

1105 Shawmut Avenue

Street

City of New Bedford

City/Town

508-979-1550

Telephone number

Licensing state (if applicable)

Commissioner / Deputy Commissioner

Title

MA

State

02740

Zip code

Ext.

E. Receiving Facility Information

1. Provide the following information on the receiving facility:

Greater New Bedford Regional Refuse Management District (Crapo Hill)

Operator/Facility name

Scott Alfonse / Shawn Peckham

Contact person

300 Samuel Barnet Blvd.

Street

New Bedford

City/Town

508-763-5924

Telephone number

Exec. Director / Operations Manager

Title

MA

State

02745

Zip code

Ext.

2. Type of facility:

- asphalt batch/cold mix
- asphalt batch/hot mix
- landfill/disposal
- landfill/ daily cover
- thermal processing
- landfill/structural fill
- other(specify): _____

3. Permit number: 93537



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4-15685
Tracking Number

F. Description of Material

Check all that apply:

1. a. soil dredge material fill

b. Description: Vegetation - tree stump

c. Classification: MIT USDA USAEC ASEE

2. Other(describe): Vegetation - tree stump

3. Type of contamination:

a. gasoline diesel fuel #2 oil #4 oil
 #6 oil waste oil kerosene jet fuel

b. Debris:

demolition vegetative inorganic

c. Other(describe): _____

4. Constituents of concern (check all that apply):

<input type="checkbox"/> As	<input type="checkbox"/> HVOCs
<input type="checkbox"/> Cd	<input type="checkbox"/> PATH
<input type="checkbox"/> Cr	<input type="checkbox"/> VOCs
<input type="checkbox"/> Pb	<input type="checkbox"/> PAHs
<input type="checkbox"/> Hg	<input type="checkbox"/> BNAs
<input type="checkbox"/> Na	<input type="checkbox"/> TPH
<input checked="" type="checkbox"/> PCBs	<input type="checkbox"/> Other(describe): _____

5. Analyses performed (check all that apply):

<input checked="" type="checkbox"/> As	<input type="checkbox"/> PATH
<input checked="" type="checkbox"/> Cd	<input checked="" type="checkbox"/> VOCs
<input checked="" type="checkbox"/> Cr	<input checked="" type="checkbox"/> PAHs
<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> BNAs
<input checked="" type="checkbox"/> Hg	<input type="checkbox"/> TPH
<input type="checkbox"/> Na	<input type="checkbox"/> TCLP (inorganic)
<input checked="" type="checkbox"/> PCBs	<input type="checkbox"/> TCLP (organic)
<input type="checkbox"/> HVOCs	<input type="checkbox"/> Other(describe): _____

6. Screening performed:

N/A
Type

Instrument used

Constituents



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

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4-15685
Tracking Number

F. Description of Material (cont.)

7. Estimated volume of materials:

	0.5	
Cubic yards	Tons	Other (specify units)

8. Contaminant source (check one):

- transportation accident
- ust
- other (describe): Historic urban fill

9. Indicate which waste characterization support documentation is attached:

- site history information
- sampling and analytical methods/procedure
- laboratory data
- field screening data

If supporting documentation is not appended, provide an attachment stating the date and in connection with what document such information was previously submitted to the facility.

G. Qualified Environmental Professional Opinion

"I have personally examined and am familiar with the information contained on and submitted with this form. Based on this information, it is my opinion that the testing and assessment actions undertaken were adequate to characterize the waste, and that the facility or location can accept wastes with the characteristics described in this submittal. I am aware that significant penalties including, but not limited to, possible fines and imprisonment may result if I willfully submit information which I know to be false, inaccurate, or materially incomplete."

TRC Environmental Corp.

Name of organization

David M. Sullivan

Name of professional

Senior Consultant & Division Safety Director

Title

978-656-3565

Telephone number

David M. Sullivan

Ext.

Signature

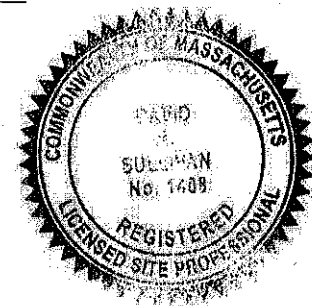
6/24/15

Date

1488

License number

Seal:





Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

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4-15685
Tracking Number

H. Certification of Generator

"I certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information contained herein is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information."

Signature [Handwritten Signature]
Date 7/9/15
Name (print) Ray Holberger

I. Acknowledgment of Receipt by Receiving Facility

CRAGG HILL LANDFILL

Receiving facility

SCOTT ALFONSE

Representative (print)

EXECUTIVE DIRECTOR

Title

Signature [Handwritten Signature]

Date

7/10/2015



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4-15685
Tracking Number

J. Load Information

Note:
Make additional copies of this page as necessary.

Load#: _____
 Signature of transporter: Michael Spol
 Date received: 7-9-15 Time received: 2:00 pm
 Truck/Tractor registration: M 76865
 Load size (cubic yards/tons): 1 cubic yard #47

CHL
 Receiving facility: Greater New Bedford Refuse
 Date of shipment: 7-9-15 Time of shipment: 2:15 pm
 Trailer registration: _____

Load#: _____
 Signature of transporter: _____
 Date received: _____ Time received: _____
 Truck/Tractor registration: _____
 Load size (cubic yards/tons): _____

Receiving facility: _____
 Date of shipment: _____ Time of shipment: _____
 Trailer registration: _____

Load#: _____
 Signature of transporter: _____
 Date received: _____ Time received: _____
 Truck/Tractor registration: _____
 Load size (cubic yards/tons): _____

Receiving facility: _____
 Date of shipment: _____ Time of shipment: _____
 Trailer registration: _____

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons): _____
 Total carried forward (cubic yards/tons): _____
 Total carried forward and this page (cubic yards/tons): _____

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