

# **RELEASE ABATEMENT MEASURE STATUS REPORT**

## **SOIL EXCAVATION AND REMOVAL AT THE ACQUIRED RESIDENTIAL PROPERTIES**

**NEW BEDFORD, MASSACHUSETTS**

**Release Tracking Number 4-15685**

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## ACRONYMS

cis-1,2-DCE	cis-1,2-Dichloroethylene
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
mg/kg	Milligrams per Kilogram
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
RAM	Release Abatement Measure
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
RTN	Release Tracking Number
TCE	Trichloroethylene
TRC	TRC Environmental Corporation
VOCs	Volatile Organic Compounds

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## **1.0 INTRODUCTION**

TRC Environmental Corporation (TRC) prepared this Release Abatement Measure Status Report (RAM Status Report) for submittal to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City) per 310 CMR 40.0445 of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). The RAM includes soil removal and site restoration activities 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, 2012) and RAM Plan Modification submitted on September 3, 2015 (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. A Site Location Map is provided as Figure 1. Additional information about RAM activities at the Acquired Residential Properties is provided in the documents listed in Section 3.0.

This RAM Status Report is organized as follows: Section 1.0 (Introduction) briefly summarizes background information pertaining to RAM-related activities. Section 2.0 (RAM Status Report) provides the information required for a RAM Status Report per the MCP (310 CMR 40.0445). Section 3.0 (References) lists information sources relied upon in the preparation of this RAM Status Report.

## 2.0 RELEASE ABATEMENT MEASURE STATUS REPORT (310 CMR 40.0445)

This RAM Status Report is organized according to the information needs set forth under 310 CMR 40.0445(2)(a) through (e) of the MCP.

### 2.1 The Status of Response Operations

Following submittal of the RAM Plan in December 2012, supplementary Site investigation activities (e.g., Dig Safe® notification, surveying/marketing proposed boring locations, etc.) were initiated in March 2013 and pre-characterization sampling to delineate the extent of soil with polychlorinated biphenyl (PCB) concentrations equal to or above 50 milligrams per kilogram (mg/kg) 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.

Following the completion of PCB pre-characterization investigation activities, 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 to be utilized during implementation of the Site remedy. A RAM Plan Modification that discussed the agreed upon approach 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.

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)*

Response actions performed during the reporting period are summarized below. Photographs of the work are included in Appendix A.

### ***2.1.1 Supplemental Disposal Characterization Sampling***

Additional disposal characterization sampling was performed at 101 and 102 Greenwood Street in November and December 2014. The work supplemented the initial phase of disposal characterization sampling conducted at these properties in September 2014, which indicated concentrations of leachable cadmium and/or lead above the regulatory limits listed in 310 CMR 30.125 Table 1 in soil at five locations, as discussed in the October 2014 RAM Status report (TRC, 2014c).

The analytical results from the September 2014 disposal characterization soil samples also showed a strong correlation between samples with elevated total cadmium concentrations and samples with leachable lead concentrations above the toxicity characteristic leachate procedure (TCLP) limit. As such, field screening of total cadmium concentrations via a handheld X-ray fluorescence (XRF) detector was utilized during November 2014 supplemental sampling activities as a proxy to predict which soils could potentially exceed TCLP criteria, and conversely which should not. An XRF field screening concentration threshold of 30 mg/kg total cadmium was generally targeted as the level below which soil samples were predicted not to exceed TCLP limits, and thus the threshold for when test pit soil samples were submitted to a laboratory for confirmatory TCLP analysis. This procedure facilitated assessment of the extent of the areas of soil requiring in-situ stabilization of leachable cadmium and/or lead prior to subsequent excavation for off-site disposal.

A total of 21 confirmatory test pits were excavated from November 7 to 10, 2014. Excavation work was performed by the City of New Bedford Department of Public Infrastructure (DPI) under TRC field supervision. Test pits were installed approximately five feet to the north, east, south and west of the historical soil borings targeted for assessment and were excavated to approximately eight feet below grade<sup>1</sup>, consistent with the depths of the historical samples that exceeded TCLP criteria. Two soil samples were generally collected from different depths at each test pit location and screened in the field for total cadmium and total lead with the XRF unit. If XRF field screening results indicated the soil sample contained total cadmium concentrations less than or equal to the 30 mg/kg threshold<sup>2</sup>, an additional sample aliquot from the same location was collected and submitted to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts (Con-Test) for analysis of the metal(s)<sup>3</sup> that exceeded TCLP criteria in the historical boring being assessed. If XRF field screening results indicated total cadmium concentrations above the 30 mg/kg threshold, a “step-out” test pit was excavated five feet farther away and additional field screening and confirmatory laboratory sampling were performed.

Confirmatory test pit soil sample designations included “CTP-” followed by the identification of the historical soil boring location(s) which the test pit targeted, followed by a letter (N, E, S or W) indicating the orientation of the test pit relative to the historical boring location (e.g., CTP-101-5A-E was located east of historical soil boring SB-101-5A). Where initial XRF field screening results indicated the extent of the area of soil warranting in-situ stabilization had not

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<sup>1</sup> The confirmatory test pits targeting historical boring SB-102-7 at 102 Greenwood Street only extended to three feet below grade, based on the proposed depth of the remedial excavation planned for that location.

<sup>2</sup> Select soil samples with total cadmium concentrations above 30 mg/kg were also analyzed by the TCLP method.

<sup>3</sup> Confirmatory test pits CTP-102-7-N and CTP-102-7-E were also analyzed for PCBs.

yet been defined, an additional “step-out” test pit was excavated and the number 1 was added to the end of the sample identification (e.g., CTP-101-5A-E1). Confirmatory test pit locations at 101 and 102 Greenwood Street are illustrated on Figures 2 and 3, respectively.

### **2.1.2 *In-situ Stabilization Activities***

The results of the supplemental disposal characterization sampling discussed above indicated three areas of soil at 101 Greenwood Street and one area at 102 Greenwood Street that required in-situ stabilization for cadmium and/or lead to render the soil a non-characteristic hazardous waste per the Resource Conservation and Recovery Act (RCRA) prior to excavation for off-site disposal. These areas are shown on Figures 2 and 3, respectively.

A bench scale treatability test was performed on Site soil requiring stabilization by Ursus Remediation Testing & Technologies, LLC of Mount Horeb, Wisconsin. The bench scale test was conducted with the stabilization agent EnviroBlend CS, a varying mixture of magnesium oxide and calcium phosphates produced by Premier Magnesia, LLC of Conshohocken, Pennsylvania. The test results showed that a 3-percent weight/weight application rate would be sufficient to stabilize the leachable cadmium and lead impacts in soil at 101 and 102 Greenwood Street.

In-situ stabilization of leachable cadmium and/or lead in soil in the four areas of 101 and 102 Greenwood Street that warranted stabilization was performed on November 25, 2014 and December 2, 2014 to render the soil a non-characteristic hazardous waste per RCRA prior to subsequent excavation and off-site disposal. Under TRC’s direction, DPI applied and mechanically mixed ten tons of EnviroBlend CS stabilization agent at a greater than 4-percent weight/weight application rate throughout these areas. The 4-percent application rate was selected as a conservative measure to ensure success with the first application.

The areas at 101 Greenwood Street were stabilized in lifts, and post-stabilization samples were collected following stabilization of each lift to confirm the stabilization treatment was successful. A post-stabilization sample was also collected from the area stabilized at 102 Greenwood Street. The post-stabilization samples were identified by the historical boring location(s) being stabilized followed by “-PS” at the end of the sample designations (e.g., SB-101-4A/5C-PS), and were submitted to Con-Test or Alpha Analytical Laboratory in Westborough, Massachusetts (Alpha) for expedited TCLP cadmium and/or lead analysis. Post-stabilization soil sample locations at 101 and 102 Greenwood Street are shown on Figures 2 and 3, respectively.

### **2.1.3 *Excavation of non-PCB Remediation Waste Soils***

Excavation of non-PCB Remediation Waste soils (soils with PCB concentrations less than 50 mg/kg) was conducted intermittently at the Site from December 2014 through March 2015<sup>4</sup>. Prior to starting the work, linear erosion and sediment control measures were deployed to mitigate storm water runoff, in accordance with the site-specific Storm Water Pollution Prevention Plan.

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<sup>4</sup> Excavation work was paused during February and the first half of March 2015 due to winter weather conditions.



At 102 Greenwood Street, outside of the proposed target PCB Remediation Waste excavation area, portions of the property were excavated to a minimum depth of three feet below grade in December 2014 to allow for the construction of a three foot thick exposure barrier of clean fill. A total of 822.16 tons (approximately 605 cubic yards) of non-PCB Remediation Waste soil was directly loaded into trailers and transported off-site to Environmental Soil Management, Incorporated of Loudon, New Hampshire (ESMI) under Bill of Lading (BOL) for treatment and disposal between December 5 and 11, 2014. A copy of the BOL is included in Appendix B.

In January 2015, following the excavation of PCB Remediation Waste soils from 102 Greenwood Street as discussed below in Section 2.1.4, an additional approximately 360 cubic yards of non-PCB Remediation Waste soils were excavated from the surface to three feet below grade in remaining portions of 102 Greenwood Street (beyond that previously excavated in December 2014). These non-PCB Remediation Waste soils were used as backfill up to subgrade level (from two feet above the water table up to three feet below grade) in the PCB Remediation Waste excavation area at this property on January 21 and 22, 2015.

At 101 and 111 Greenwood Street and 98, 108 and 118 Ruggles Street (hereinafter the “Five Contiguous Properties”) approximately 430 cubic yards of soil were excavated from the top three feet of the perimeter of the properties from December 12, 2014 to March 31, 2015, to allow for construction of the three foot deep exposure barrier of clean fill. Soils were temporarily stockpiled on-site in accordance with 310 CMR 40.0030 and subsequently reused as backfill in the PCB Remediation Waste excavation area at 101 Greenwood Street (from two feet above the water table up to three feet below grade) or used as grading material below the exposure barrier in central portions of the properties.

In addition, RAM activities required clearing existing vegetation from the Site to facilitate equipment access. The cleared woody vegetated debris was temporarily staged on-site in accordance with 310 CMR 40.0030 pending characterization and off-site disposal. A sample (WDP) was collected from the stockpile of woody debris on January 26, 2015 and submitted to Con-Test for analysis of PCBs and RCRA 8 metals. Concentrations below MCP RCS-1 criteria and MassDEP’s permissible concentrations for disposal in Massachusetts landfills were detected, and the woody debris was deemed suitable for disposal at Crapo Hill Landfill in New Bedford, Massachusetts. Approximately 16 tons of vegetative debris cleared from the Site during RAM activities was transported in dump trucks by DPI to Crapo Hill Landfill under a Material Shipping Record (MSR) for disposal on March 24, 2015. A copy of the MSR is included in Appendix B, and a copy of the lab report is included in Appendix C.

#### ***2.1.4 Excavation of PCB Remediation Waste Soils at 101 and 102 Greenwood Street***

Excavation of PCB Remediation Waste soils was conducted at 101 and 102 Greenwood Street between January and March 2015. Pre-characterization of the horizontal and vertical extent of the PCB Remediation Waste was previously completed under the RAM Plan<sup>5</sup> (TRC, 2012), as summarized in previous RAM Status reports (TRC, 2013b, 2014a, and 2014c) and the RAM Plan Modification (TRC, 2014b). As such, the proposed excavation areas were marked in

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<sup>5</sup> The lateral limits of the targeted PCB Remediation Waste excavations were not fully defined in advance; verification sampling was required at 14 locations (minimum) along the perimeter of the excavations by EPA.

advance of soil removal activities by a licensed surveyor, Land Planning, Incorporated of Hanson, Massachusetts. A survey crew from DPI was on-site during excavation activities to record the final limits of the completed excavations.

A total of 687.5 tons (approximately 505 cubic yards) of PCB Remediation Waste soils were removed from 101 Greenwood Street from January 7 to 14, 2015, and a total of 969.7 tons (approximately 715 cubic yards) of PCB Remediation Waste soils were removed from 102 Greenwood Street from January 14 to April 2, 2015. Electrical components consistent with those identified during previous test pit investigations at the Site were observed within the PCB Remediation Waste excavation at 101 Greenwood Street and documented and retained.

In January 2015, PCB Remediation Waste soils were directly loaded into trailers, or temporarily stockpiled on-site in accordance with 310 CMR 40.0030 prior to transfer to trailers, and transported off-site by Goulet Trucking, Incorporated of South Deerfield, Massachusetts (Goulet). The material was transported to the CSX Transportation, Inc. rail yard facility in Worcester, Massachusetts (CSX Facility) and transferred into Gondolas for shipment via rail road by Heritage Transport LLC to Heritage Environmental Services' licensed chemical waste landfill in Roachdale, Indiana (Heritage Environmental Services' Landfill) for disposal. In April 2015, PCB Remediation Waste soils temporarily stockpiled on-site in accordance with 310 CMR 40.0030 were loaded into trailers and transported by US Bulk Transport, IN to Heritage Environmental Services' Landfill for disposal. PCB Remediation Waste soils were transported under Hazardous Waste Manifest; copies of the Manifests and Certificates of Disposal are included in Appendix B.

The PCB Remediation Waste excavation areas were backfilled to a subgrade level (three feet below grade) with a combination of non-PCB Remediation Waste soils/boulders removed from the top three feet of areas outside the targeted PCB Remediation Waste excavations, and certified clean fill material imported by Medeiros & Sons' Construction, Incorporated of North Dartmouth, Massachusetts (Medeiros & Sons'). Clean fill and boulders were used from below the water table to approximately two feet above the water table.

A dewatering sump was installed at 102 Greenwood Street on January 20, 2015 in the area of the PCB Remediation Waste excavation that extended below the groundwater table; however, the minor amount of groundwater entering the excavation did not require dewatering. The excavation was completed to the target depths and backfilled before significant amounts of groundwater infiltrated the excavation.

### ***2.1.5 Verification Sampling at 101 and 102 Greenwood Street***

Post-excavation verification sampling was conducted at 101 and 102 Greenwood Street in select locations along the perimeters of the PCB Remediation Waste excavations agreed upon in advance with the EPA Region 1 PCB Coordinator (Kim Tisa), as discussed in the RAM Plan Modification (TRC, 2014b). A total of 18 post-excavation verification samples (1PEX\_1 through 1PEX\_8 at 101 Greenwood Street, and 2PEX\_1 through 2PEX\_6, 2PEX\_3-S, 2PEX\_3-W, 2PEX\_6-E and 2PEX\_6-N at 102 Greenwood Street) were collected from the perimeters of the PCB Remediation Waste excavation areas in January 2015 and submitted to Con-Test for PCB analysis.

Verification sample 2PEX\_6 (1-3') was collected from 102 Greenwood Street during disposal characterization sampling activities on November 7, 2014 (discussed above in Section 2.1.1) and submitted to Con-Test for PCB analysis<sup>6</sup>. The sample was obtained from a test pit excavated by DPI personnel using a backhoe; it was collected in advance of the in-situ stabilization work conducted to address leachable lead in an area of soil (discussed above in Section 2.1.2) in the immediate vicinity of the targeted PCB Remediation Waste excavation at 102 Greenwood Street, to assess the extent of PCB Remediation Waste. Collecting/analyzing the sample prior to initiating lead stabilization activities and the subsequent excavation of non-PCB Remediation Waste soils from the surface to three feet below grade at 102 Greenwood Street for off-site treatment/disposal at ESMI (which is not permitted to accept PCB Remediation Waste) was warranted to ensure the soil was managed properly.

Two verification samples (2PEX\_3 and 2PEX\_6) contained PCB concentrations greater than the EPA-approved action level for the verification samples (20 mg/kg). The extent of the PCB Remediation Waste excavations in the vicinity of these samples was increased to include the sample locations, and additional verification samples were collected and analyzed for PCBs from the locations and depths along the perimeter of the excavation to delineate the extent of PCB Remediation Waste. Verification sample locations at 101 and 102 Greenwood Street are shown on Figures 4 and 5, respectively.

In addition to the above-mentioned verification samples analyzed for PCBs, 11 post-excavation samples (VPEX\_1 through VPEX\_5, VPEX\_8, and VPEX\_B1 through VPEX\_B5) were collected from the perimeter and base of the area of potentially trichloroethylene (TCE) impacted soil at 102 Greenwood Street and submitted to Con-Test for analysis of volatile organic compounds (VOCs). These post-excavation sample locations are shown on Figure 5.

### ***2.1.6 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, and the removal of PCB Remediation Waste soils from 101 and 102 Greenwood Street, a three foot deep exposure barrier was constructed over the excavated areas with pre-tested compliant fill material imported by Medeiros & Sons'.

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. The fill was placed above the subgrade and built up and compacted in successive layers not exceeding twelve inches in un-compacted thickness.

Exposure barrier construction activities remain underway as of the date of this report.

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<sup>6</sup> Soil samples from confirmatory test pits CTP-102-7-N and CTP-102-7-E, also collected during disposal characterization activities on November 7, 2014, were subsequently authorized for PCB analysis to assess the extent of PCB Remediation Waste in the vicinity of verification sample 2PEX\_6.

## **2.2 Significant New Site Information or Data**

Results of the sampling activities performed during the reporting period are discussed below.

### ***2.2.1 In-Situ Soil Stabilization Sampling Results – 101 and 102 Greenwood Street***

Twenty-one confirmatory test pit soil samples were analyzed for leachable cadmium and/or lead by the TCLP method prior to soil stabilization activities to assess the extent of the areas requiring stabilization. One sample [CTP-101-5A-S (4-8')] contained a concentration of leachable lead above the regulatory limit listed in 310 CMR 30.125 Table 1, which led to the expansion of the area stabilized with EnviroBlend CS to include this sample location, as described above in Section 2.1.1. Confirmatory test pit soil sample CTP-101-4D-E (4-8'), which was collected in duplicate, contained a lead concentration above the TCLP limit in the duplicate sample; however, the average result of the two samples comprising the pair collected from this location/depth was below the TCLP limit.

Following the application of ten tons of the stabilization agent EnviroBlend CS, a total of nine soil samples were collected from the areas previously exhibiting regulated concentrations of leachable cadmium and/or lead and submitted for laboratory TCLP analysis of whichever metal(s) had previously exceeded regulatory limits to confirm the application was successful. Only one sample contained a lead concentration above the laboratory reporting limits, and the detected lead concentration was well below the TCLP limit.

Analytical results for soil samples collected in association with soil stabilization activities are summarized in Table 1. Stabilization-related soil sample locations and results at 101 and 102 Greenwood Street and the areas stabilized are illustrated on Figures 2 and 3, respectively. Copies of the laboratory reports are included in Appendix C.

### ***2.2.2 Post-Excavation Verification Sample Results – 101 and 102 Greenwood Street***

A total of 18 verification soil samples were collected from along the perimeters of the PCB Remediation Waste excavation areas at 101 and 102 Greenwood Street and analyzed for PCBs. Analytical results indicated PCB concentrations above the project action level (20 mg/kg) in two of the soil samples, 2PEX\_3 and 2PEX\_6. As such, additional "step-out" verification samples were collected and analyzed for PCBs from the locations and depths to define the extent of PCB Remediation Waste in these areas, and the extent of the PCB Remediation Waste excavations in the vicinity of these samples was subsequently increased to include the sample locations with concentrations above the action level.

In addition, 11 post-excavation samples were collected from the perimeter and base of the potentially TCE impacted area of soil at 102 Greenwood Street and analyzed for VOCs. Four of these samples contained TCE concentrations above the MCP Method 1 S-1/GW-2 and/or S-1/GW-3 standards; one sample also contained a cis-1,2-dichloroethylene concentration above the S-1/GW-2 standard. Two of the sample locations with TCE concentrations above cleanup standards were subsequently excavated for off-site disposal.

Post-excavation verification sample locations at 101 and 102 Greenwood Street and a summary of the associated results are illustrated on Figures 4 and 5, respectively. Verification sample PCB results are summarized in Table 2, and post-excavation VOC sample results are summarized in Table 3. Copies of the laboratory reports are included in Appendix C.

## **2.3 Details of and/or Plans for the Management of Remediation Waste, Remedial Wastewater, and/or Remedial Additives**

### ***2.3.1 Soil Transport and Disposal***

A total of 822.16 tons (approximately 605 cubic yards) of non-PCB Remediation Waste soil excavated from the surface to three feet below grade in portions of 102 Greenwood Street was directly loaded into trailers and transported off-site under BOL for treatment and disposal at ESMI from December 5 to 12, 2014.

A total of 687.50 tons (approximately 505 cubic yards) of PCB Remediation Waste soils were removed from 101 Greenwood Street from January 7 to 14, 2015, and a total of 969.7 tons (approximately 715 cubic yards) of PCB Remediation Waste soils were removed from 102 Greenwood Street from January 14 to April 2, 2015. In January 2015, PCB Remediation Waste soils were directly loaded into trailers, or temporarily stockpiled on-site in accordance with 310 CMR 40.0030 prior to transfer to trailers, and transported off-site by Goulet to the CSX Facility in Worcester, Massachusetts where it was transferred into gondolas for shipment via rail road by Heritage Transport LLC to Heritage Environmental Services' Landfill in Roachdale, Indiana for disposal. In April 2015, PCB Remediation Waste soils temporarily stockpiled on-site in accordance with 310 CMR 40.0030 were loaded into trailers and transported by US Bulk Transport, IN to Heritage Environmental Services' Landfill for disposal. PCB Remediation Waste soils were transported under Hazardous Waste Manifest; copies of the Manifests and Certificates of Disposal are included in Appendix B.

### ***2.3.2 Beneficial Soil Reuse On-site***

In January 2015, following the excavation of PCB Remediation Waste soil from 102 Greenwood Street in January 2015, as described above in Section 2.1.4, approximately 360 cubic yards of non-PCB Remediation Waste soils were excavated from the surface to three feet below grade in remaining portions of 102 Greenwood Street property (that were not previously excavated in December 2014). These non-PCB Remediation Waste soils were used as backfill up to subgrade level (from two feet above the water table up to three feet below grade) in the PCB Remediation Waste excavation area at this property on January 21 and 22, 2015.

Approximately 430 cubic yards of soil were excavated from the top three feet of the perimeter of the Five Contiguous Properties from December 12, 2014 to March 31, 2015 to allow for the construction of a three foot deep exposure barrier of clean fill. Soils were temporarily stockpiled on-site in accordance with 310 CMR 40.0030 and subsequently used as backfill in the PCB Remediation Waste excavation area at 101 Greenwood Street (from two feet above the water table up to three feet below grade), or used as grading material below the exposure barrier in central portions of these properties.


**2.4 Other Necessary Information**

No additional information is required in association with this RAM Status Report.

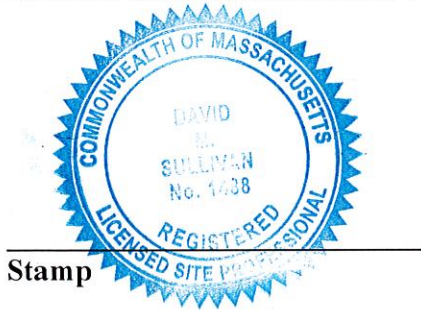
**2.5 LSP Opinion**

The objective of this RAM Status Report is to apprise MassDEP of the City's activities at the Acquired Residential Properties.

This RAM Status Report has been prepared in accordance with 310 CMR 40.0445 per the MCP.

  
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David M. Sullivan, LSP  
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Licensed Site Professional No. 1488

Apr 14, 2015  
\_\_\_\_\_  
Date



### 3.0 REFERENCES

- TRC, 2012      *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.
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- 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.

## **TABLES**



**Table 1**  
**Summary of Analytical Results for Soil Stabilization Activities -- November and December 2014**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID:		CTP-101-4A/5C-E		CTP-101-4A/5C-N		CTP-101-4A/5C-S		CTP-101-4A/5C-S1		CTP-101-4A/5C-W		CTP-101-4A/5C-W1	
		Sample Depth ft.:	Sample Date:	0-4	4-8	0-4	4-8	0-4	4-8	0-4	4-8	0-4	4-8	0-4	4-8
		TCLP*	10 x UTS	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
<b>Metals, XRF</b>															
(mg/kg)	Cadmium	N/A	N/A	12 U	<b>19</b>	12 U	<b>21</b>	12 U	<b>44</b>	13 U	<b>26</b>	13 U	<b>26</b>	12 U	11 U
	Lead	N/A	N/A	<b>889</b>	<b>8303</b>	<b>1747</b>	<b>4897</b>	<b>1198</b>	<b>1830</b>	<b>897</b>	<b>1500</b>	<b>533</b>	<b>959</b>	<b>619</b>	<b>662</b>
<b>Metals, TCLP</b>															
(mg/L)	Cadmium	1	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	5	7.5	<b>1.2</b>	<b>2.5</b>	<b>1.6</b>	<b>3.1</b>	<b>1.9</b>	<b>4.4</b>	<b>4.3</b>	<b>4.1</b>	<b>3.4</b>	<b>2.5</b>	<b>1.9</b>	<b>0.51</b>

**Notes:**

mg/kg - milligrams per kilogram

mg/L - milligrams per liter.

B - Compound detected in associated method blank

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

NM - Not measured.

TCLP - Toxicity Characteristic Leaching Procedure.

U - Compound was not detected at specified quantitation limit.

UTS - EPA Universal Treatment Standards, July 1, 2010.

XRF - X-ray fluorescence field screening using Olympus Delta Pro RK XRF unit.

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

EnviroBlend CS, as needed, and subsequently excavated for off-site disposal.

\* - EPA SW-846 Chapter 7, Table 7-1, Maximum

Concentration of Contaminants for Toxicity Characteristic.

**Table 1**  
**Summary of Analytical Results for Soil Stabilization Activities -- November and December 2014**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID:		CTP-101-4D-E			CTP-101-4D-N		CTP-101-4D-S		CTP-101-4D-W		CTP-101-5A-E	
		Sample Depth ft.:	Sample Date:	0-4	4-8	4-8	0-4	4-8	0-4	4-8	0-4	4-8	0-4	4-8
		TCLP*	10 x UTS	11/10/2014	11/10/2014	11/10/2014 Field Dup	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/7/2014	11/7/2014
<b>Metals, XRF</b>														
(mg/kg)	Cadmium	N/A	N/A	12 U	<b>28</b>	<b>28</b>	13 U	9 U	11 U	<b>10</b>	<b>12</b>	11 U	12 U	<b>27</b>
	Lead	N/A	N/A	<b>411</b>	<b>1756</b>	<b>1756</b>	<b>1057</b>	<b>402</b>	<b>642</b>	<b>1387</b>	<b>827</b>	<b>898</b>	<b>750</b>	<b>980</b>
<b>Metals, TCLP</b>														
(mg/L)	Cadmium	1	1.1	<b>0.011</b>	<b>0.30</b>	<b>0.37</b>	<b>0.19</b>	<b>0.050</b>	<b>0.0068</b>	<b>0.097</b>	<b>0.036</b>	<b>0.018</b>	<b>0.064</b>	<b>0.68</b>
	Lead	5	7.5	<b>0.32</b>	<b>3.6</b>	<b>6.3</b>	<b>1.9</b>	<b>0.32</b>	<b>0.29</b>	<b>1.3</b>	<b>0.37</b>	<b>0.77</b>	<b>1.3 B</b>	<b>2.4 B</b>

**Notes:**

mg/kg - milligrams per kilogram

mg/L - milligrams per liter.

B - Compound detected in associated method blank

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

NM - Not measured.

TCLP - Toxicity Characteristic Leaching Procedure.

U - Compound was not detected at specified quantitation limit.

UTS - EPA Universal Treatment Standards, July 1, 2010.

XRF - X-ray fluorescence field screening using Olympus Delta Pr

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

EnviroBlend CS, as needed, and subsequently excavated for off-site disposal.

\* - EPA SW-846 Chapter 7, Table 7-1, Maximum

Concentration of Contaminants for Toxicity Characteristic.

**Table 1**  
**Summary of Analytical Results for Soil Stabilization Activities -- November and December 2014**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID:		CTP-101-5A-E1		CTP-101-5A-N		CTP-101-5A-N1-E		CTP-1015A-N1-W		CTP-101-5A-S		
		Sample Depth ft.:		0-4	4-8	0-4	4-8	0-4	4-8	0-4	4-8	0-4	4-8	
		Sample Date:		11/10/2014	11/10/2014	11/7/2014	11/7/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/7/2014	11/7/2014	
TCLP*		10 x UTS												
<b>Metals, XRF</b> (mg/kg)	Cadmium	N/A	N/A	12 U	14 U	12 U	<b>50</b>	11 U	14 U	12 U	13 U	12 U	<b>27</b>	
	Lead	N/A	N/A	<b>238</b>	<b>961</b>	<b>1246</b>	<b>3768</b>	<b>499</b>	<b>641</b>	<b>471</b>	<b>1202</b>	<b>996</b>	<b>2606</b>	
<b>Metals, TCLP</b> (mg/L)	Cadmium	1	1.1	<b>0.039</b>	<b>0.11</b>	<b>0.012</b>	<b>0.90</b>	<b>0.0099</b>	<b>0.039</b>	<b>0.011</b>	<b>0.027</b>	<b>0.013</b>	<b>0.36</b>	
	Lead	5	7.5	<b>1.9 B</b>	<b>3.0 B</b>	<b>0.73 B</b>	<b>4.2 B</b>	<b>0.34 B</b>	<b>0.80 B</b>	<b>0.50 B</b>	<b>1.8 B</b>	<b>0.98 B</b>	<b>5.7 B</b>	

**Notes:**

mg/kg - milligrams per kilogram

mg/L - milligrams per liter.

B - Compound detected in associated method blank

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

NM - Not measured.

TCLP - Toxicity Characteristic Leaching Procedure.

U - Compound was not detected at specified quantitation limit.

UTS - EPA Universal Treatment Standards, July 1, 2010.

XRF - X-ray fluorescence field screening using Olympus Delta Pr

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

EnviroBlend CS, as needed, and subsequently excavated for off-

site disposal.

\* - EPA SW-846 Chapter 7, Table 7-1, Maximum

Concentration of Contaminants for Toxicity Characteristic.

**Table 1**  
**Summary of Analytical Results for Soil Stabilization Activities -- November and December 2014**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID:		CTP-101-5A-W			CTP-102-7-E	CTP-102-7-N	CTP-102-7-S	CTP-102-7-W	SB-101-4A/5C/5A-PS	
		Sample Depth ft.:	Sample Date:	0-4	4-8	4-8	0-3	0-3	0-3	0-3	0-5	5-10
		TCLP*	10 x UTS	11/7/2014	11/7/2014	11/7/2014 Field Dup	11/7/2014	11/7/2014	11/7/2014	11/7/2014	11/25/2014	12/2/2014
<b>Metals, XRF</b>												
(mg/kg)	Cadmium	N/A	N/A	13 U	<b>21</b>	<b>21</b>	<b>23</b>	12 U	<b>5</b>	<b>7</b>	NM	NM
	Lead	N/A	N/A	<b>608</b>	<b>647</b>	<b>647</b>	<b>180</b>	<b>483</b>	<b>913</b>	<b>537</b>	NM	NM
<b>Metals, TCLP</b>												
(mg/L)	Cadmium	1	1.1	<b>0.017</b>	<b>0.15</b>	<b>0.21</b>	NA	NA	NA	NA	0.10 U	0.0040 U
	Lead	5	7.5	<b>0.80 B</b>	<b>0.95 B</b>	<b>1.3 B</b>	<b>0.29 B</b>	<b>0.86 B</b>	<b>2.2 B</b>	<b>1.1 B</b>	0.50 U	0.010 U

**Notes:**

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter.  
B - Compound detected in associated method blank  
NA - Sample not analyzed for the listed analyte.  
N/A - Not applicable.  
NM - Not measured.  
TCLP - Toxicity Characteristic Leaching Procedure.  
U - Compound was not detected at specified quantitation limit.  
UTS - EPA Universal Treatment Standards, July 1, 2010.  
XRF - X-ray fluorescence field screening using Olympus Delta Pr  
Values in **Bold** indicate the compound was detected.  
EnviroBlend CS, as needed, and subsequently excavated for off-site disposal.  
\* - EPA SW-846 Chapter 7, Table 7-1, Maximum Concentration of Contaminants for Toxicity Characteristic.

**Table 1**  
**Summary of Analytical Results for Soil Stabilization Activities -- November and December 2014**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID:		SB-101-4A/5C-PS		SB-101-4D-PS		SB-101-5A-PS		SB-102-7-PS	
		Sample Depth ft.:	0-5	5-10	0-5	5-10	3-7	7-10	0-3		
		Sample Date:	11/25/2014	12/2/2014	11/25/2014	12/2/2014	11/26/2014	12/2/2014	11/25/2014		
TCLP*		10 x UTS									
<b>Metals, XRF</b> (mg/kg)	Cadmium	N/A	N/A	NM	NM	NM	NM	NM	NM	NM	
	Lead	N/A	N/A	NM	NM	NM	NM	NM	NM	NM	
<b>Metals, TCLP</b> (mg/L)	Cadmium	1	1.1	NA	NA	0.10 U	0.0040 U	0.10 U	0.0040 U	NA	
	Lead	5	7.5	0.50 U	<b>0.012</b>	0.50 U	0.010 U	0.50 U	0.010 U	0.50 U	

**Notes:**

mg/kg - milligrams per kilogram

mg/L - milligrams per liter.

B - Compound detected in associated method blank

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

NM - Not measured.

TCLP - Toxicity Characteristic Leaching Procedure.

U - Compound was not detected at specified quantitation limit.

UTS - EPA Universal Treatment Standards, July 1, 2010.

XRF - X-ray fluorescence field screening using Olympus Delta Pr

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

EnviroBlend CS, as needed, and subsequently excavated for off-site disposal.

\* - EPA SW-846 Chapter 7, Table 7-1, Maximum

Concentration of Contaminants for Toxicity Characteristic.

**Table 2**  
**Summary of Analytical Results for PCB Soil Samples -- November 2014 through March 2015**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID:	CTP-102-7-E	CTP-102-7-N	1 PEX_1	1 PEX_2	1 PEX_3	1 PEX_4	1 PEX_5
		Sample Depth (ft.):	0-3	0-3	1-3	1-3	1-3	3-5	4.5-6
		Sample Date:	11/7/2014	11/7/2014	1/7/2015	1/7/2015	1/7/2015	1/12/2015	1/13/2015
<b>PCBs</b>									
(mg/kg)	Aroclor-1016		0.59 U	2.0 U	0.61 U	1.1 U	0.11 U	0.10 U	0.10 U
	Aroclor-1221		0.59 U	2.0 U	0.61 U	1.1 U	0.11 U	0.10 U	0.10 U
	Aroclor-1232		0.59 U	2.0 U	0.61 U	1.1 U	0.11 U	0.10 U	0.10 U
	Aroclor-1242		0.59 U	2.0 U	0.61 U	1.1 U	0.11 U	0.10 U	0.10 U
	Aroclor-1248		0.59 U	2.0 U	0.61 U	1.1 U	0.11 U	0.10 U	0.10 U
	Aroclor-1254		<b>4.8</b>	<b>15</b>	<b>4.1</b>	<b>5.7</b>	<b>0.31</b>	0.10 U	0.10 U
	Aroclor-1260		0.59 U	2.0 U	<b>0.98</b>	<b>1.2</b>	<b>0.27</b>	0.10 U	0.10 U
	Aroclor-1262		0.59 U	2.0 U	0.61 U	1.1 U	0.11 U	0.10 U	0.10 U
	Aroclor-1268		0.59 U	2.0 U	0.61 U	1.1 U	0.11 U	0.10 U	0.10 U
	Total PCBs		<b>4.8</b>	<b>15</b>	<b>5.08</b>	<b>6.9</b>	<b>0.58</b>	0.10 U	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 samples that have been excavated for off-site disposal.

PCBs - Polychlorinated Biphenyls.

**Table 2**  
**Summary of Analytical Results for PCB Soil Samples -- November 2014 through March 2015**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID: Sample Depth (ft.): Sample Date:	1 PEX_6		1 PEX_7	1 PEX_8	2 PEX_1		2 PEX_2	2 PEX_3
			4-6 1/13/2015	7-9 1/13/2015	3-5 1/13/2015	1-3 1/9/2015	5-7 1/15/2015	5-7 1/15/2015 Field Dup	5-7 1/21/2015	5-7 1/21/2015
<b>PCBs</b> (mg/kg)	Aroclor-1016		0.11 U	0.67 U	2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U
	Aroclor-1221		0.11 U	0.67 U	2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U
	Aroclor-1232		0.11 U	0.67 U	2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U
	Aroclor-1242		0.11 U	0.67 U	2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U
	Aroclor-1248		0.11 U	0.67 U	2.7 U	0.15 U	0.10 U	0.11 U	0.29 U	6.9 U
	Aroclor-1254		<b>0.15</b>	<b>3.9</b>	<b>18</b>	<b>0.67</b>	0.10 U	<b>0.24</b>	<b>1.6</b>	<b>47</b>
	Aroclor-1260		<b>0.18</b>	0.67 U	2.7 U	<b>0.10</b>	0.10 U	0.11 U	<b>0.71</b>	6.9 U
	Aroclor-1262		0.11 U	0.67 U	2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U
	Aroclor-1268		0.11 U	0.67 U	2.7 U	0.10 U	0.10 U	0.11 U	0.29 U	6.9 U
	Total PCBs		<b>0.31</b>	<b>3.9</b>	<b>18</b>	<b>0.82</b>	0.10 U	<b>0.24</b>	<b>2.31</b>	<b>47</b>

**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 for off-site disposal.

PCBs - Polychlorinated Biphenyls.

**Table 2**  
**Summary of Analytical Results for PCB Soil Samples -- November 2014 through March 2015**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID: Sample Depth (ft.): Sample Date:	2 PEX_3-S			2PEX_3-W		2 PEX_4	2 PEX_5	2PEX-6	
			5-7	5-7	8-10	5-7	8-10	5-7	5-7	1-3	1-3
			3/20/2015	3/20/2015 Field Dup	3/20/2015	3/20/2015	3/20/2015	1/21/2015	1/21/2015	11/7/2014	11/7/2014 Field Dup
<b>PCBs</b> (mg/kg)	Aroclor-1016		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Aroclor-1221		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Aroclor-1232		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Aroclor-1242		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Aroclor-1248		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Aroclor-1254		<b>2.8</b>	<b>2.7</b>	0.11 U	<b>2.6</b>	0.12 U	0.10 U	<b>0.93</b>	<b>56</b>	<b>57</b>
	Aroclor-1260		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Aroclor-1262		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Aroclor-1268		0.71 U	0.69 U	0.11 U	0.60 U	0.12 U	0.10 U	0.10 U	5.9 U	5.9 U
	Total PCBs		<b>2.8</b>	<b>2.7</b>	0.11 U	<b>2.6</b>	0.12 U	0.10 U	<b>0.93</b>	<b>56</b>	<b>57</b>

**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 for off-site disposal.

PCBs - Polychlorinated Biphenyls.



**Table 2**  
**Summary of Analytical Results for PCB Soil Samples -- November 2014 through March 2015**  
**101 and 102 Greenwood Street**  
**New Bedford, Massachusetts**

Analysis	Analyte	Sample ID: Sample Depth (ft.): Sample Date:	2PEX 6-E	2PEX 6-N	
			1-3 11/21/2014	1-3 11/21/2014	1-3 11/21/2014 Field Dup
<b>PCBs</b> (mg/kg)	Aroclor-1016		0.0348 U	0.363 U	0.358 U
	Aroclor-1221		0.0348 U	0.363 U	0.358 U
	Aroclor-1232		0.0348 U	0.363 U	0.358 U
	Aroclor-1242		0.0348 U	0.363 U	0.358 U
	Aroclor-1248		0.0348 U	0.363 U	0.358 U
	Aroclor-1254		<b>0.128</b>	<b>3.44</b>	<b>3.83</b>
	Aroclor-1260		<b>0.0372</b>	0.363 U	0.358 U
	Aroclor-1262		0.0348 U	0.363 U	0.358 U
	Aroclor-1268		0.0348 U	0.363 U	0.358 U
	Total PCBs		<b>0.165</b>	<b>3.44</b>	<b>3.83</b>

**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 for off-site disposal.

PCBs - Polychlorinated Biphenyls.

**Table 3**  
**Summary of Analytical Results for VOC Soil Samples -- January 2015**  
**102 Greenwood Street**  
**New Bedford, Massachusetts**

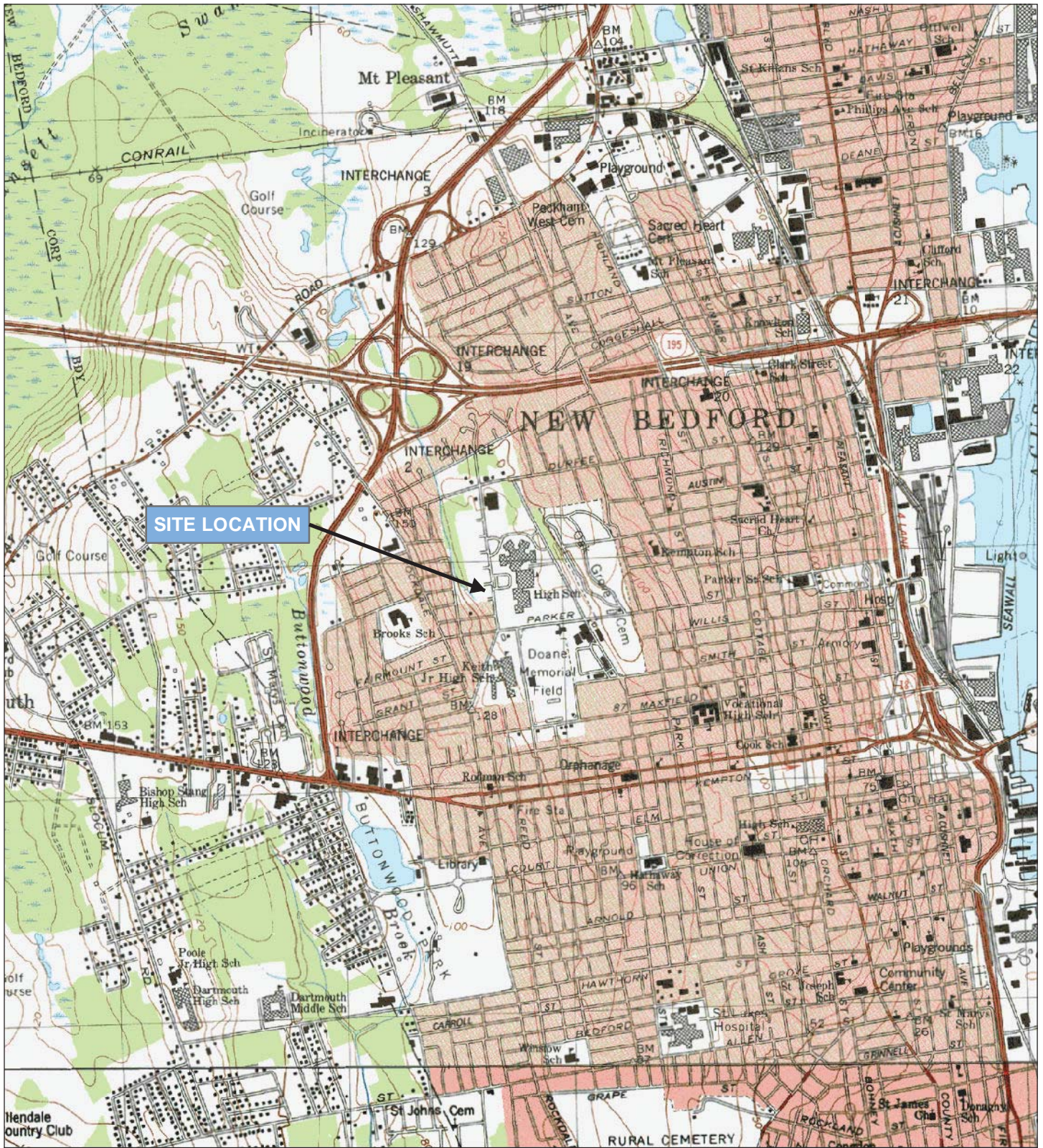
Analysis	Analyte	Sample ID: Sample Depth (ft.): Sample Date:	VPEX_1		VPEX_2	VPEX_3	VPEX_4	VPEX_5	VPEX_B1	VPEX_B2	VPEX_B3	VPEX_B4	VPEX_B5	VPEX_8
			5-6	5-6	6-7	6-7	6-7	5-6	7	7	11-12	19	15	5
			1/16/2015	1/16/2015 Field Dup	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/20/2015	1/20/2015	1/20/2015
<b>VOCs</b> (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	0.0017 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	0.0034 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	0.0034 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	<b>0.024</b>	<b>0.0041</b>	0.0020 U	<b>0.15</b>	<b>0.012</b>	<b>0.014</b>	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	0.0034 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	0.0034 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	0.0034 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 3**  
**Summary of Analytical Results for VOC Soil Samples -- 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	0.0034 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	<b>0.0068</b>	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		<b>0.0095</b>	<b>0.0079</b>	<b>46</b>	<b>0.087</b>	<b>0.025</b>	<b>5.8</b>	<b>43</b>	<b>10</b>	<b>0.023</b>	0.0012 U	0.0014 U	<b>0.039</b>
	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 for off-site disposal.  
VOCs - Volatile Organic Compounds.

## **FIGURES**



**SITE LOCATION**

MASSACHUSETTS



**SITE  
LOCATION**



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

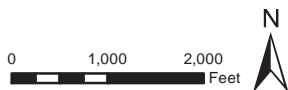
**SITE LOCATION MAP**

**ACQUIRED RESIDENTIAL  
PROPERTIES**

**NEW BEDFORD, MA**

**FIGURE 1**

**AUGUST 2011**



Base map: USGS 7.5 Minute Quadrangle New Bedford North (1979) and New Bedford South (1979)

# 101 GREENWOOD STREET

**LEGEND**

	PREVIOUSLY EXISTING CONTOUR (1' PRIOR TO REM ACTIVITIES)
	EXISTING PROPERTY LINE
	EXISTING PAVEMENT
	EXISTING CHAIN LINK FENCE

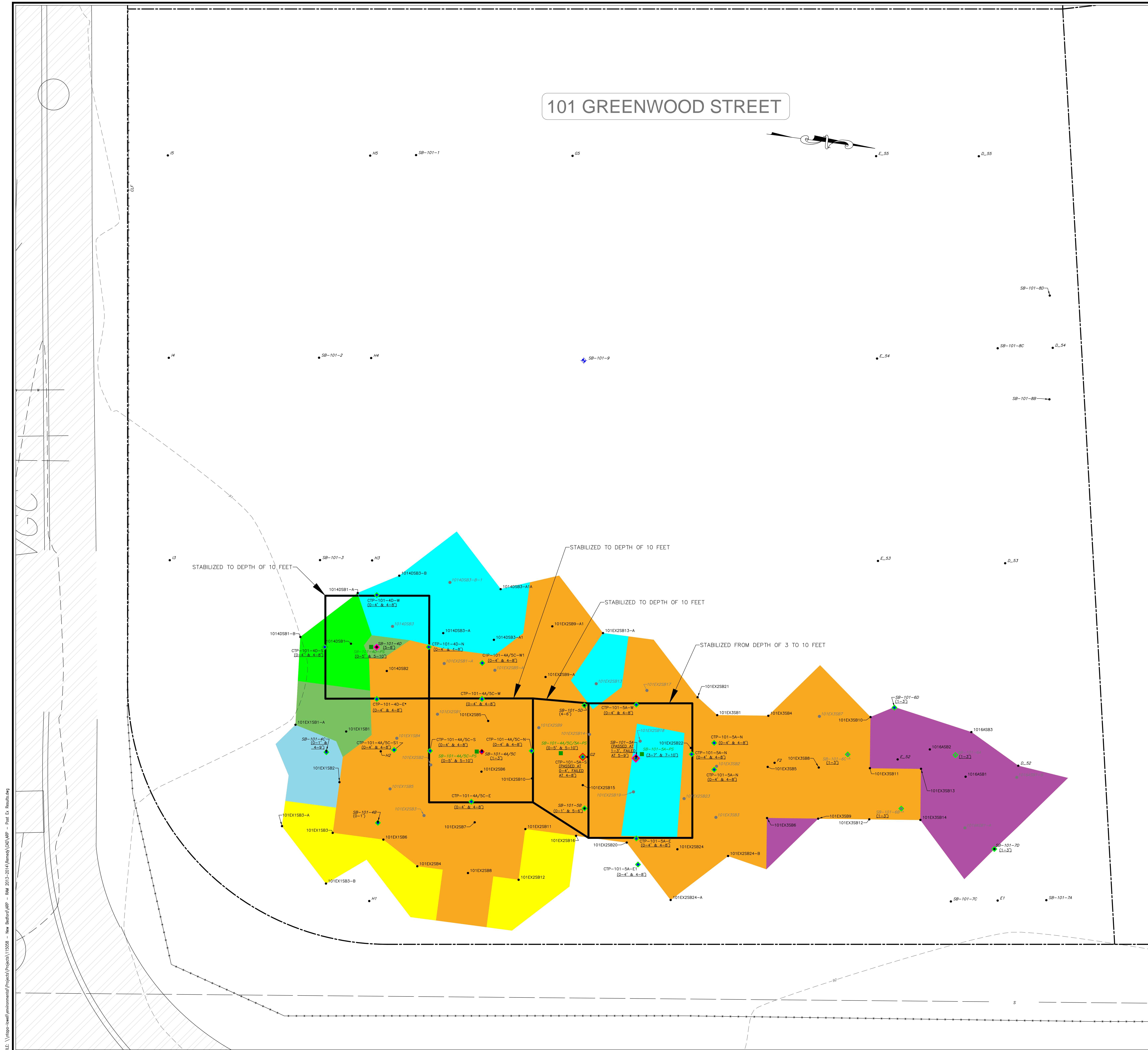
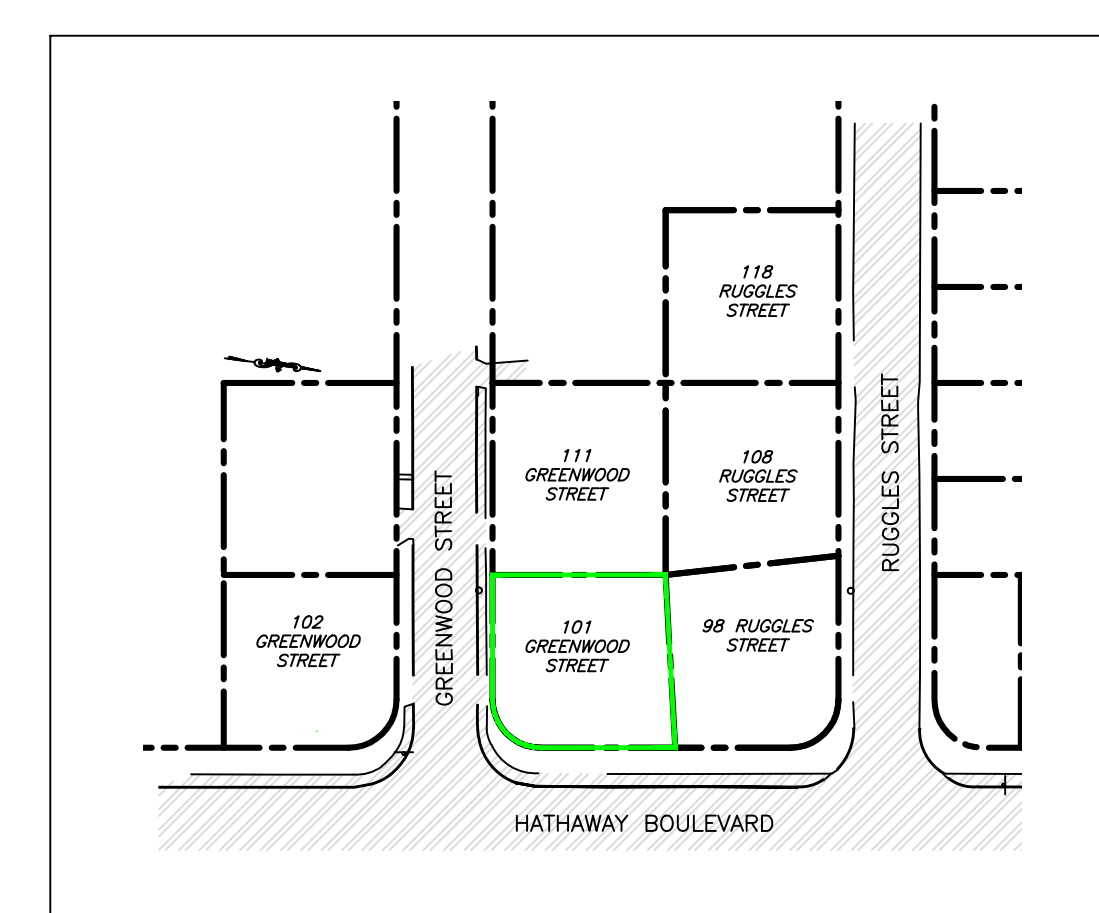
	AREA EXCAVATED TO 3 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
	AREA EXCAVATED TO 5 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
	AREA EXCAVATED TO 6 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
	AREA EXCAVATED TO 7 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
	AREA EXCAVATED TO 8 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
	AREA EXCAVATED TO 9 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
	AREA EXCAVATED TO 11 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)

	SITE CHARACTERIZATION BORING (2005-2010); SELECT BORING LOCATIONS REVISITED IN 2014 (PCB CONCENTRATION < 50 MG/KG)
	SITE CHARACTERIZATION BORING COMPLETED AS GROUNDWATER MONITORING WELL (2010)
	TSCA PRECHARACTERIZATION DELINEATION BORING (2013)

GRAY TEXT INDICATES SAMPLES THAT WERE EXCAVATED TO AT LEAST THE MAXIMUM DEPTH THAT SAMPLES WERE PREVIOUSLY ANALYZED FOR PCBs FROM FOR OFF-SITE DISPOSAL

**2014 SOIL STABILIZATION ACTIVITIES INFORMATION**

	SOIL BORING ID/TCLP SAMPLE LOCATION SAMPLE DEPTH/DEPTH INTERVAL PROVIDED IN PARENTHESES AND UNDERLINED
	CONFIRMATORY TEST PIT ID/TCLP SAMPLE LOCATION (THE SOIL IN AREAS BETWEEN THESE SAMPLES WAS STABILIZED WITH ENVIROBLEND CS, AS NEEDED, AND SUBSEQUENTLY EXCAVATED FOR OFF-SITE DISPOSAL)
	SAMPLE DEPTH/DEPTH INTERVAL PROVIDED IN PARENTHESES AND UNDERLINED
	PASSED TCLP FOR METAL(S) [Cd, Cr, Hg, AND/OR Pb]
	EXCEEDED TCLP LIMIT FOR LEAD
	EXCEEDED TCLP LIMIT FOR CADMIUM
	LIMIT OF AREA STABILIZED FOR LEACHABLE LEAD AND/OR CADMIUM USING ENVIROBLEND CS (11-25-14 THROUGH 12-2-14)
	POST-STABILIZATION SAMPLE LOCATION & IDENTIFICATION; PASSED TCLP FOR METALS (THESE SAMPLES WERE SUBSEQUENTLY EXCAVATED FOR OFF-SITE DISPOSAL)
	SAMPLE DEPTH/DEPTH INTERVAL PROVIDED IN PARENTHESES AND UNDERLINED



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

**SOIL STABILIZATION  
ACTIVITIES SUMMARY**

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

**TRC**

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

**FIGURE 2**

# 102 GREENWOOD STREET

**LEGEND**

- (0-1)--- PREVIOUSLY EXISTING CONTOUR (1' PRIOR TO RMV ACTIVITIES)
- EXISTING PROPERTY LINE
- EXISTING PAVEMENT
- EXISTING CHAIN LINK FENCE

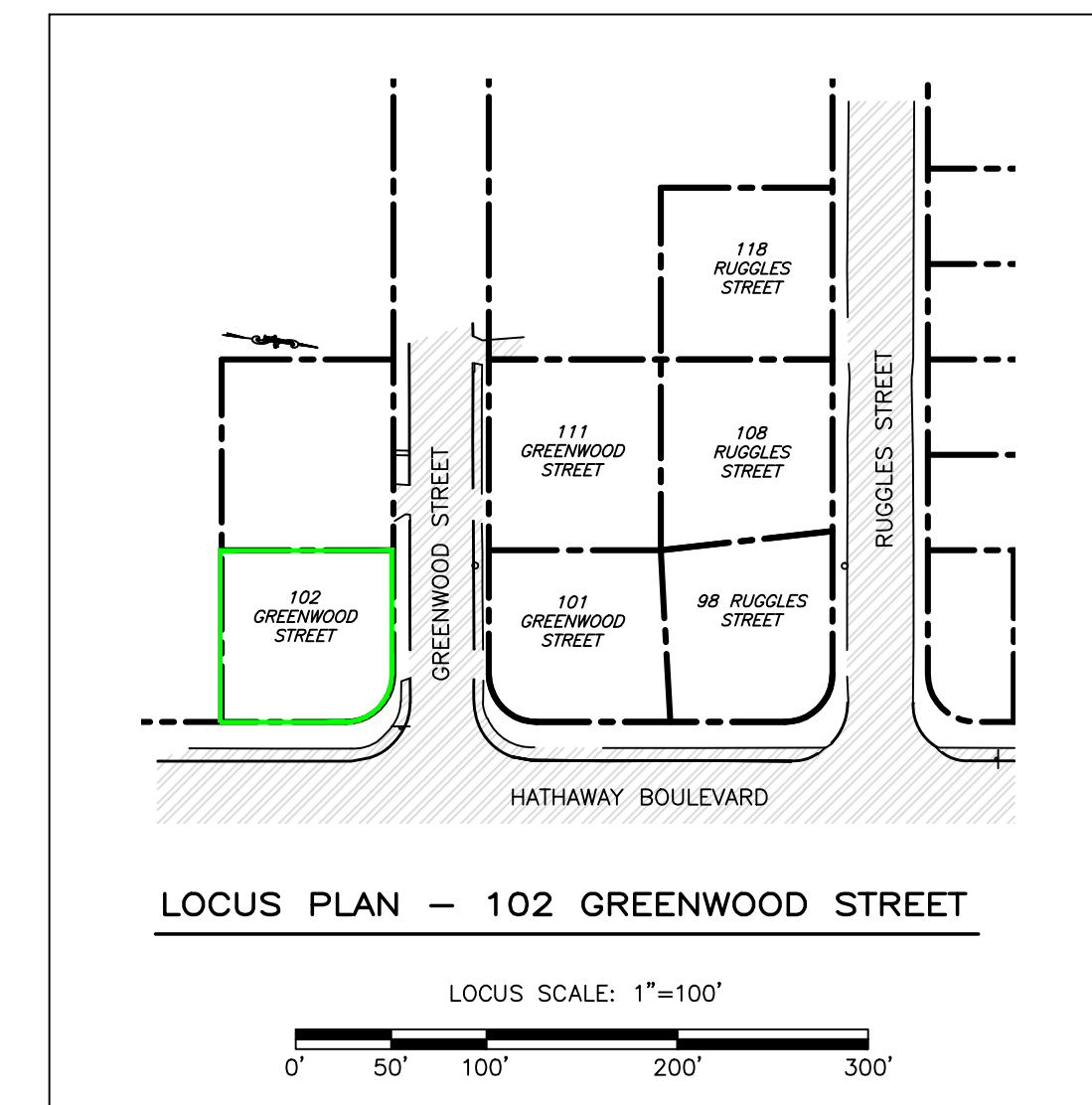
- AREA EXCAVATED TO 3 FEET BELOW GRADE (CONTAINED NON-PCB REMEDIATION WASTE SOILS WITH PCBs < 50 MG/KG)
- AREA EXCAVATED TO 5 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 7 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 8 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 9 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 11 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 13 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 15 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 17 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 19 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)

- GT-1 GEOTECHNICAL BORING (2014)
- GT-2/MW-GT-2S&2D GEOTECHNICAL BORING/NESTED MONITORING WELL (2014)
- MW-43 GROUNDWATER MONITORING WELL (2013)
- #1\_3 SITE CHARACTERIZATION BORING (2005-2010); SELECT BORING LOCATIONS REVISITED IN 2014 (PCB CONCENTRATION < 50 MG/KG)
- SB-102-80/MW-36 SITE CHARACTERIZATION BORING COMPLETED AS GROUNDWATER MONITORING WELL (2010)
- 102EX1SB1-A TSCA PRECHARACTERIZATION DELINEATION BORING (2013)

GRAY TEXT INDICATES SAMPLES THAT WERE EXCAVATED (TO AT LEAST THE MAXIMUM DEPTH THAT SAMPLES WERE PREVIOUSLY ANALYZED FOR PCBs FROM) FOR OFF-SITE DISPOSAL

**2014 SOIL STABILIZATION ACTIVITIES INFORMATION**

- SB-102-7 SOIL BORING ID/TCLP SAMPLE LOCATION  
SAMPLE DEPTH/DEPTH INTERVAL PROVIDED IN PARENTHESES AND UNDERLINED
- CTP-102-7-N CONFIRMATORY TEST PIT ID/TCLP SAMPLE LOCATION (THE SOIL IN AREAS BETWEEN THESE SAMPLES WERE STABILIZED WITH ENVIROBLEND CS, AS NEEDED, AND SUBSEQUENTLY EXCAVATED FOR OFF-SITE DISPOSAL)
- (0-3) SAMPLE DEPTH/DEPTH INTERVAL PROVIDED IN PARENTHESES AND UNDERLINED
- PASSED TCLP FOR METAL(S) [Cd, Cr, Hg, AND/OR Pb]
- EXCEEDED TCLP LIMIT FOR LEAD
- PASSED TCLP FOR VOCs
- LIMIT OF AREA STABILIZED FOR LEACHABLE LEAD USING ENVIROBLEND CS (11-25-14 THROUGH 12-2-14)
- SB-102-7-PS POST-STABILIZATION SAMPLE LOCATION & IDENTIFICATION; PASSED TCLP FOR METALS (THESE SAMPLES WERE SUBSEQUENTLY EXCAVATED FOR OFF-SITE DISPOSAL)
- (0-3) SAMPLE DEPTH/DEPTH INTERVAL PROVIDED IN PARENTHESES AND UNDERLINED



PLAN VIEW SCALE: 1"=3'

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

**SOIL STABILIZATION  
ACTIVITIES SUMMARY**

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

**TRC**

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

**FIGURE 3**

FILE: \\norton-lowell\environmental\Projects\115059 - New Bedford\WP - New Bedford\WP - 102 Greenwood\115059 - New Bedford\WP - 102 Greenwood.dwg

# 101 GREENWOOD STREET

**LEGEND**

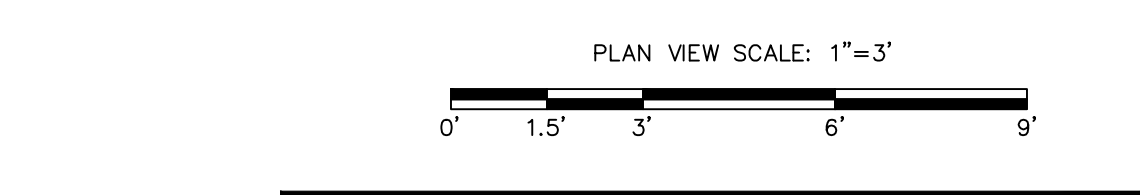
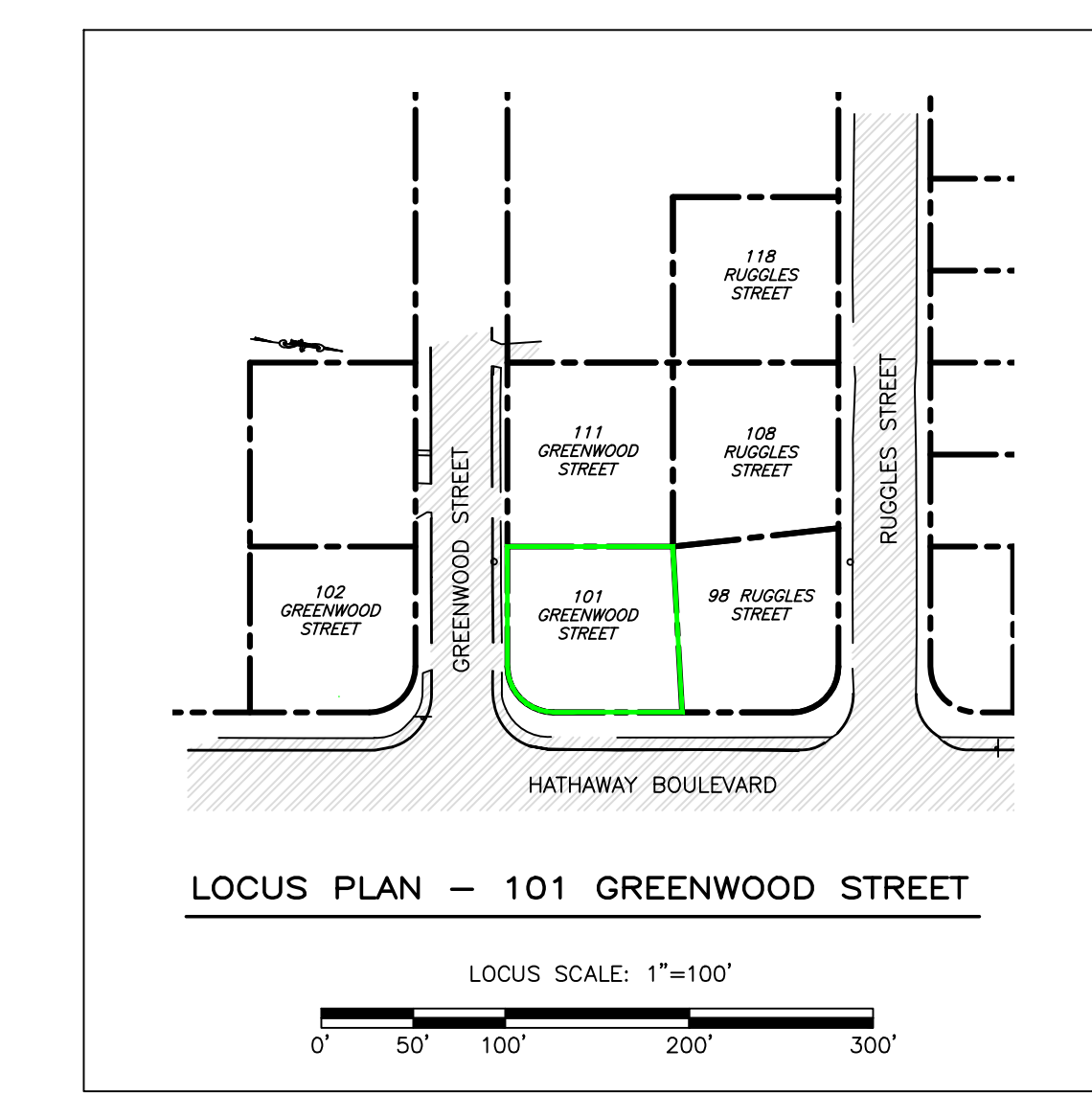
- PREVIOUSLY EXISTING CONTOUR (1" PRIOR TO RAM ACTIVITIES)
- EXISTING PROPERTY LINE
- EXISTING PAVEMENT
- EXISTING CHAIN LINK FENCE

- AREA EXCAVATED TO 3 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 5 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 6 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 7 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 8 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 9 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 11 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)

- GS: SITE CHARACTERIZATION BORING (2005-2010); SELECT BORING LOCATIONS REVISITED IN 2014 (PCB CONCENTRATION < 50 MG/KG)
- SB-101-9: SITE CHARACTERIZATION BORING COMPLETED AS GROUNDWATER MONITORING WELL (2010)
- 101EX15B-1: TSCA PRECHARACTERIZATION DELINEATION BORING (2013)
- TP-101J: PREVIOUSLY EXCAVATED TEST PIT (SAMPLES ANALYZED FOR PCBs)
- TP-101G: PREVIOUSLY EXCAVATED TEST PIT (SAMPLES NOT ANALYZED FOR PCBs; TOTAL PCB CONCENTRATIONS ASSUMED > 50 MG/KG BASED ON ITEMS OBSERVED IN TEST PIT)
- SOIL SAMPLE DEPTH INTERVAL IN FEET BELOW GROUND SURFACE: LISTS TOTAL PCB CONCENTRATION IN MG/KG OBSERVED IN SOIL AT THAT DEPTH INTERVAL WHERE DUPLICATE RESULTS ARE AVAILABLE; THE HIGHER CONCENTRATION IS CITED ON THIS FIGURE.
- 101EX35B11: TSCA PRECHARACTERIZATION DELINEATION SAMPLE DEPTH INTERVALS AND TOTAL PCB CONCENTRATIONS
- SOIL SAMPLE DEPTH INTERVAL IN FEET BELOW GROUND SURFACE: LISTS TOTAL PCB CONCENTRATION IN MG/KG OBSERVED IN SOIL AT THAT DEPTH INTERVAL WHERE DUPLICATE RESULTS ARE AVAILABLE; THE HIGHER CONCENTRATION IS CITED ON THIS FIGURE. U = QUANTITY WAS NOT DETECTED AT SPECIFIED QUANTITATIVE LIMIT.
- 1PEX\_4: POST EXCAVATION SAMPLE LOCATION, IDENTIFICATION, DEPTH AND PCB CONCENTRATION (MG/KG)

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**

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

**TRC**

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

**FIGURE 4**

FILE: \\huron-lowell\environmental\Projects\150508 - New Bedford\WP - Post Ex Results.dwg



# 102 GREENWOOD STREET

**LEGEND**

- PREVIOUSLY EXISTING CONTOUR (1' PRIOR TO RAM ACTIVITIES)
- EXISTING PROPERTY LINE
- EXISTING PAVEMENT
- EXISTING CHAIN LINK FENCE

- AREA EXCAVATED TO 3 FEET BELOW GRADE (CONTAINED NON-PCB REMEDIATION WASTE SOILS WITH PCBs < 50 MG/KG)
- AREA EXCAVATED TO 5 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 7 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 8 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 9 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 11 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 13 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 15 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 17 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)
- AREA EXCAVATED TO 19 FEET BELOW GRADE (CONTAINED PCBs > 50 MG/KG)

- GT-1 GEOTECHNICAL BORING (2014)
- GT-2/MW-GT-25&2D GEOTECHNICAL BORING/NESTED MONITORING WELL (2014)
- MW-43 GROUNDWATER MONITORING WELL (2013)
- K1-3 SITE CHARACTERIZATION BORING (2009-2010); SELECT BORING LOCATIONS REVISITED IN 2014 (PCB CONCENTRATION < 50 MG/KG)
- SB-102-80/MW-36 SITE CHARACTERIZATION BORING COMPLETED AS GROUNDWATER MONITORING WELL (2010)
- 102EX1SB1-A TSCA PRECHARACTERIZATION DELINEATION BORING (2013)
- TP-102B PREVIOUSLY EXCAVATED TEST PIT (SAMPLES ANALYZED FOR PCBs)

**SOIL SAMPLE DEPTH INTERVALS IN FEET BELOW GROUND SURFACE**

LISTS TOTAL PCB CONCENTRATION IN MG/KG IDENTIFIED IN SOIL AT THAT DEPTH INTERVAL. WHERE DUPLICATE RESULTS ARE AVAILABLE, THE HIGHER CONCENTRATION IS CITED ON THIS FIGURE.

TSCA PRECHARACTERIZATION DELINEATION SAMPLE DEPTH INTERVALS AND TOTAL PCB CONCENTRATIONS (SAMPLE DEPTHS/CONCENTRATIONS SHOWN IN GRAY HAVE BEEN EXCAVATED FOR OFF-SITE DISPOSAL)

LISTS TOTAL PCB CONCENTRATION IN MG/KG IDENTIFIED IN SOIL AT THAT DEPTH INTERVAL. WHERE DUPLICATE RESULTS ARE AVAILABLE, THE HIGHER CONCENTRATION IS CITED ON THIS FIGURE.

U - COMPOUND WAS NOT DETECTED AT SPECIFIED QUANTIFICATION LIMIT

PRE/POST-EXCAVATION SAMPLE LOCATION, IDENTIFICATION, DEPTH AND PCB CONCENTRATION (MG/KG)

LISTS VOC CONCENTRATION IN MG/KG IDENTIFIED IN SOIL AT THAT DEPTH INTERVAL. WHERE DUPLICATE RESULTS ARE AVAILABLE, THE HIGHER CONCENTRATION IS CITED ON THIS FIGURE.

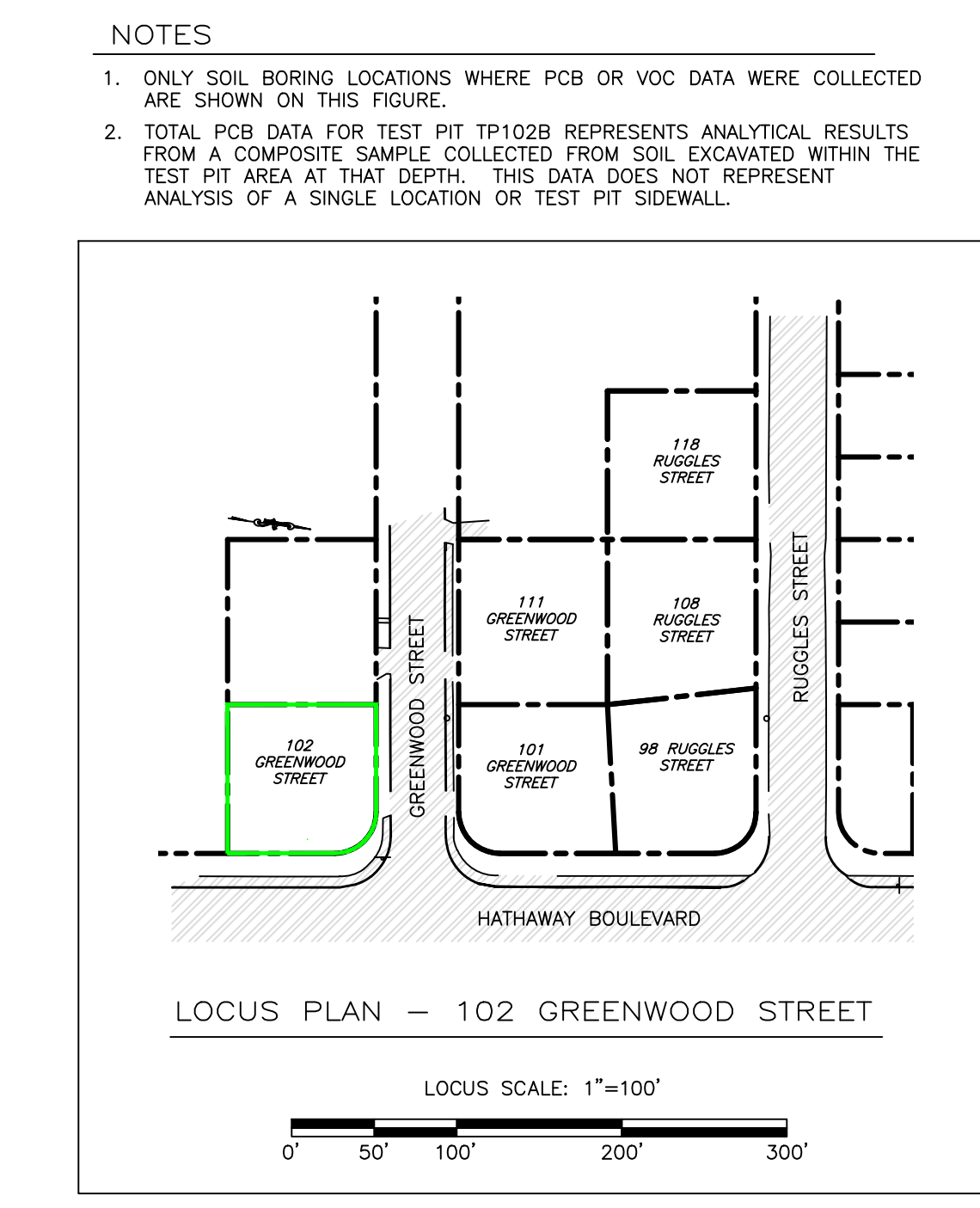
POST-EXCAVATION VOC SAMPLE LOCATION, IDENTIFICATION AND DEPTH

CB-1,2-DCE REPRESENTS CB-1,2-DICHLOROETHYLENE AND TCE REPRESENTS TRICHLOROETHYLENE (ONLY VOC RESULTS ABOVE MAP S=1/GW-2 AND/OR S=1/GW-3 STANDARDS ARE SHOWN ON THE FIGURE)

**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.

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



**102 GREENWOOD STREET (ACQ. RESIDENTIAL PROPERTIES) NEW BEDFORD, MA POST-EXCAVATION PCB AND VOC RESULTS SUMMARY**

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

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

**FIGURE 5**

FILE: \\norton-lowell\environmental\Projects\150205 - New Bedford\WP - 102-101A\102-101A\102-101A.dwg

**APPENDIX A**  
**SITE PHOTOGRAPHS**

## Appendix A Site Photographs



Photo 1: Test pitting around historical boring location SB-101-5A on November 7, 2014.




Photo 2: Stormwater controls – silt fence and straw waddle sediment barrier installed around 101 Greenwood Street on November 25, 2014.



Photo 3: Application of EnviroBlend CS at 101 Greenwood Street on December 2, 2014.



Photo 4: Compacting clean backfill in southwest portion of 102 Greenwood Street on December 8, 2014.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
115058	J. Fiero, B. MacDonald	1 of 4	City of New Bedford	Acquired Residential Properties Greenwood Street and Ruggles Street New Bedford, MA	

## Appendix A Site Photographs



Photo 5: Orange warning layer in northwest portion of 102 Greenwood Street on December 8, 2014.




Photo 6: Majority of non-PCB Remediation Waste area of 102 Greenwood Street property graded and compacted on December 12, 2014.



Photo 7: Sloped perimeter excavation in southeast corner of 101 Greenwood Street on December 15, 2014.



Photo 8: Geotextile fabric, first foot of clean fill, orange warning layer, and tree protection along eastern perimeter of 101 Greenwood Street on December 16, 2014.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
115058	J. Fiero, B. MacDonald	2 of 4	City of New Bedford	Acquired Residential Properties Greenwood Street and Ruggles Street New Bedford, MA	

## Appendix A Site Photographs



Photo 9: Secured stockpile of non-PCB Remediation Waste soils on December 29, 2014.




Photo 10: PCB Remediation Waste excavation at 101 Greenwood Street on January 13, 2015.



Photo 11: PCB Remediation Waste excavation at 101 Greenwood Street backfilled on January 15, 2015.



Photo 12: Removal of first five feet of PCB Remediation Waste excavation at 102 Greenwood Street on January 15, 2015.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
115058	J. Fiero, B. MacDonald	3 of 4	City of New Bedford	Acquired Residential Properties Greenwood Street and Ruggles Street New Bedford, MA	

## Appendix A Site Photographs



Photo 13: Deeper PCB Remediation Waste excavation at 102 Greenwood Street on January 20, 2015.




Photo 14: Backfilling PCB Remediation Waste excavation with crushed stone below groundwater table at 102 Greenwood Street on January 20, 2015.



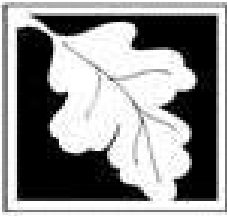
Photo 15: Using non-PCB Remediation Waste soils from zero to three feet as backfill in PCB Remediation Waste excavation at 102 Greenwood Street on January 21, 2015.



Photo 16: PCB Remediation Waste excavation at 102 Greenwood Street backfilled to three feet below grade on January 22, 2015.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
115058	J. Fiero, B. MacDonald	4 of 4	City of New Bedford	Acquired Residential Properties Greenwood Street and Ruggles Street New Bedford, MA	

**APPENDIX B**  
**DISPOSAL DOCUMENTATION**



**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: 12/4/2014                      b. eDEP Transaction ID: 706191  
(mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading 12/4/2014 to 12/31/2015  
(mm/dd/yyyy)                      (mm/dd/yyyy)

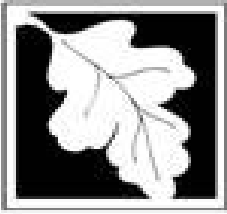
**(All sections of this transmittal form must be filled out unless otherwise noted above)**

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:**

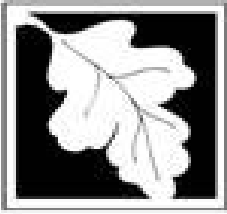
1. Transporter/Common Carrier Name: ESMI OF NH

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)**

**E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:**

1. Operator/Facility 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: \_\_\_\_\_

12. Type of facility: (check one)

a. Temporary Storage i. Period of Temporary Storage \_\_\_\_\_ to \_\_\_\_\_  
(mm/dd/yyyy) (mm/dd/yyyy)

ii. Reason for Temporary Storage: \_\_\_\_\_

b. Asphalt Batch/Hot Mix  c. Landfill/Disposal  d. Landfill/Structural Fill  e. Landfill/Daily Cover

f. Asphalt Batch/Cold Mix  g. Thermal Processing  h. Incinerator  i. Other: \_\_\_\_\_

13. Division of Hazardous Waste/Class A Permit Number: \_\_\_\_\_

14. Division of Solid Waste Permit Number: DES-SW-SP-96002

15. EPA Identification Number: NH5986485852

**F. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief, the assessment action(s) undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal.

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


1. LSP #: 1488

2. First Name: DAVID M 3. Last Name: SULLIVAN

4. Telephone: 9786563565 5. Ext: \_\_\_\_\_ 6. Email: \_\_\_\_\_

7. Signature: \_\_\_\_\_

8. Date: \_\_\_\_\_  
(mm/dd/yyyy)

9. LSP Stamp: 



**BILL OF LADING (pursuant to 310 CMR 40.0030)**

**G. PERSON SUBMITTING BILL OF LADING:**

1. Check all that apply:  a. change in contact name  b. change of address  c. change in the person undertaking response actions
2. Name of Organization: CITY OF NEW BEDFORD
3. Contact First Name: RAY 4. Last Name: HOLBERGER
5. Street: 133 WILLIAM ST 6. Title: ENVIRONMENTAL PLANNER
7. City/Town: NEW BEDFORD 8. State: MA 9. Zip Code: 027400000
10. Telephone: 5089791527 11. Ext: \_\_\_\_\_ 12. Email: \_\_\_\_\_

**H. RELATIONSHIP TO SITE OF PERSON SUBMITTING BILL OF LADING:**

Check here to change relationship

1. RP or PRP  a. Owner  b. Operator  c. Generator  d. Transporter
- e. Other RP or PRP Specify: NON-SPECIFIED PRP
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Undertaking Response Actions: Specify Relationship: \_\_\_\_\_

**I. REQUIRED ATTACHMENT AND SUBMITTALS:**

1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approvals issued by DEP or EPA. If the box is checked, you must attach a statement identifying the applicable provisions thereof.
2. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@state.ma.us
3. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

**J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING:**

1. I, \_\_\_\_\_, 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: \_\_\_\_\_ 3. Title: ENVIRONMENTAL PLANNER

4. For: CITY OF NEW BEDFORD 5. Date: \_\_\_\_\_  
(Name of person or entity recorded in Section G) (mm/dd/yyyy)



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

**BWSC 112**

Release Tracking Number

4 - 15685

**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: \_\_\_\_\_

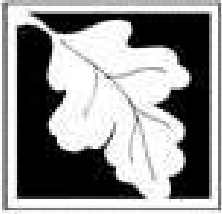
8. City/Town: \_\_\_\_\_ 9. State: \_\_\_\_\_ 10. Zip Code: \_\_\_\_\_

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 4/7/2015 2:21:49 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

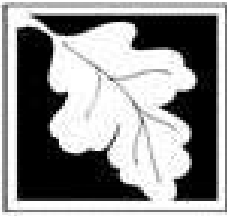
4 - 15685

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:		
			<input type="checkbox"/> yds <sup>3</sup>	<input checked="" type="checkbox"/> tons	<input type="checkbox"/> gals
12/5/2014	12/5/2014	6	242.03		
12/8/2014	12/8/2014	3	115.57		
12/10/2014	12/10/2014	6	234.72		
12/11/2014	12/11/2014	6	229.84		
5. Totals Recorded on this Summary of Shipment Sheet:		21	822.16		

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: 4/6/2015  
(mm/dd/yyyy)

6. Date of Final Shipment associated with this Bill of lading: 12/11/2014  
(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: 4/7/2015  
(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

AC41 Concord New Bedford



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MPS089716198	2. Page 1 of 2	3. Emergency Response Phone (800) 324-1221	4. Manifest Tracking Number 000650900WAS
----------------------------------	--	-------------------	---	---

5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6119 Generator's Phone: (508) 400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN. 143119
--	---

6. Transporter 1 Company Name BOULET TRUCKING INC	U.S. EPA ID Number MAC300006038
--	------------------------------------

7. Transporter 2 Company Name PROVIDENCE & WILMINGTON	U.S. EPA ID Number MAD059026834
--	------------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROADDALE, IN 44172-9593 Facility's Phone: (765) 435-2704	U.S. EPA ID Number IND980503890
---	------------------------------------

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit W/L/Vol.	13. Waste Codes		
		No.	Type					
X	RO. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9. PG11, (PUB REMEDIATION WASTE), ER5W171	1	DT	30000 26,866	K			

14. Special Handling Instructions and Additional Information I will 0917901 107402347 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. OKR1 52254 TRUCK NO. 1 ERI: HERITAGE [409550416]
--

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

Generator's/Offeror's Printed/Typed Name Ray Helbago for the City of New Bedford	Signature <i>[Signature]</i>	Month Day Year 11 17 15
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INTL

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name CHRISTIAN NORRIE Signature <i>[Signature]</i> Month Day Year 11 17 15	Transporter 2 Printed/Typed Name <i>[Signature]</i> Signature <i>[Signature]</i> Month Day Year 11 17 15
---	---

DISCREPANCY

18. Discrepancy
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
Manifest Reference Number:

DESIGNATED FACILITY

18b. Alternate Facility (or Generator)	U.S. EPA ID Number:
Facility's Phone:	
18c. Signature of Alternate Facility (or Generator)	Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name <i>[Signature]</i>	Signature <i>[Signature]</i>	Month Day Year 10 17 15
--	---------------------------------	----------------------------

ACHTHONDOLA Way BEDFORD

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number NF5089916188	22. Page of 2	23. Manifest Tracking Number 000450900WAS
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24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-8113	CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740
--	--

25. Transporter <sup>3</sup> Company Name CBX TRANSPORTATION INC	U.S. EPA ID Number FLD006921340
--	------------------------------------

26. Transporter <sup>4</sup> Company Name HERITAGE TRANSPORT, LLC	U.S. EPA ID Number IND058484114
---	------------------------------------

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information

33. Transporter <sup>3</sup> Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____	Month _____ Day _____ Year _____
---	----------------------------------

34. Transporter <sup>4</sup> Acknowledgment of Receipt of Materials Printed/Typed Name <u>JASON ROBERTS</u> Signature <u>[Signature]</u>	Month <u>1</u> Day <u>12</u> Year <u>15</u>
---	---

35. Discrepancy

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

GENERATOR  
TRANSPORTER  
DESIGNATED FACILITY





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894249

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650900WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 20-JAN-15

<u>Disposal Process:</u> Wastestream		<u># Containers</u>	<u>Total Kilograms</u>
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	26,871
<b>Totals</b>		<b>1</b>	<b>26,871</b>

RAILCAR: CEFX 32754

Jeffrey A. Laborsky, President

AC151 GOWS



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MFS087716188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650903WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter 1 Company Name GOLLEY TRUCKING INC			U.S. EPA ID Number MAC30006038				
7. Transporter 2 Company Name PROVIDENCE & WORCESTER			U.S. EPA ID Number MAD059020834				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4270 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND990503870				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (FOR REMEDIATION WASTE), ERG#171	1	DT	32000 23267	K	
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. WL 0917901 TW7682378 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 32754 TRUCK NO. 2 ERI: HERITAGE (409558710)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ray Holbogar		Signature <i>[Signature]</i>		Month Day Year 1   7   15			
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Jeff Crowell		Signature <i>[Signature]</i>		Month Day Year 1   7   15			
Transporter 2 Printed/Typed Name Dan [unclear]		Signature <i>[Signature]</i>		Month Day Year 1   7   15			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 10   20   15			

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MP5089916198	22. Page of 20	23. Manifest Tracking Number 000650703WAS					
		24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113		CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740					
25. Transporter <input checked="" type="checkbox"/> Company Name CSX TRANSPORTATION INC		U.S. EPA ID Number FLD006921340							
26. Transporter <input checked="" type="checkbox"/> Company Name HERITAGE TRANSPORT, LLC		U.S. EPA ID Number IND058484114							
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
			No.	Type					
32. Special Handling Instructions and Additional Information									
TRANSPORTER	33. Transporter <input checked="" type="checkbox"/> Acknowledgment of Receipt of Materials								
	Printed/Typed Name	Signature				Month	Day	Year	
34. Transporter <input checked="" type="checkbox"/> Acknowledgment of Receipt of Materials		Printed/Typed Name					Month	Day	Year
35. Discrepancy		Tim Cook					1	20	15
DESIGNATED FACILITY	36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894252

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650903WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 20-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	27,914
<b>Totals</b>		<b>1</b>	<b>27,914</b>

RAILCAR: CEFX 32754

Jeffrey A. Laborsky, President

AC157 New Bedford



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MP5087916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650904WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (308)400-2747			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN. 143113				
6. Transporter 1 Company Name GOULET TRUCKING INC			U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name ERMITAGE & WINCHESTER			U.S. EPA ID Number MAD059020834				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 27769	K		
14. Special Handling Instructions and Additional Information I. M1 0917901 T47682375 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 22237 TRUCK NO. 3 ERI: HERITAGE (489550010)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ray Holberg			Signature <i>Ray Holberg</i>		Month Day Year 11 7 15		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name CHRISTIAN NORRIS			Signature <i>Christian Norris</i>		Month Day Year 11 7 15		
Transporter 2 Printed/Typed Name <i>Wendy...</i>			Signature <i>Wendy...</i>		Month Day Year 11 7 15		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)					Manifest Reference Number: U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>...</i>			Signature <i>...</i>		Month Day Year 11 20 15		

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)	21. Generator ID Number 7P507916150	22. Page 2 of 2	23. Manifest Tracking Number 0006509040A5
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24. Generator's Name CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113	CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740
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25. Transporter <u>3</u> Company Name CSX TRANSPORTATION INC	U.S. EPA ID Number FLD006921340
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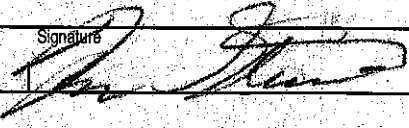
28. Transporter <u>4</u> Company Name HERITAGE TRANSPORT, LLC	U.S. EPA ID Number IND058484114
---	------------------------------------

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information

DESIGNATED FACILITY TRANSPORTER GENERATOR

33. Transporter <u>3</u> Acknowledgment of Receipt of Materials Printed/Typed Name	Signature	Month	Day	Year
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34. Transporter <u>4</u> Acknowledgment of Receipt of Materials Printed/Typed Name <i>Tom Stierwald</i>	Signature 	Month	Day	Year 1 20 15
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35. Discrepancy

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



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894253

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**

**Gen# :** 143113

**DOCUMENT :** 000650904WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 20-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,774
<b>Totals</b>		<b>1</b>	<b>29,774</b>

RAILCAR: CEFX 32754

Jeffrey A. Laborsky, President



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MP5087916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650898WAS
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113		
6. Transporter 1 Company Name BOULET TRUCKING INC			U.S. EPA ID Number MAC300006038		
7. Transporter 2 Company Name PROVIDENCE & WORCESTER			U.S. EPA ID Number MAD059020834		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46178-7593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND960503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9. POIII, (PCB REMEDIATION WASTE), ER04171	1	DT	30000 31202	K
14. Special Handling Instructions and Additional Information I. WI 0917701 TW682363 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 1212 576113 TRUCK NO. 4 WT 52,460 lbs 23,795 kg ERI: HERITAGE C487558210					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offeror's Printed/Typed Name Ray Albano			Signature Ray Albano		Month Day Year 1 7 15
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Jeff Crowell			Signature Jeff Crowell		Month Day Year 1 7 15
Transporter 2 Printed/Typed Name Wade Thomas			Signature Wade Thomas		Month Day Year 1 7 15
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
18b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
18c. Signature of Alternate Facility (or Generator)			Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.	2.	3.	4.		
	H132				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Brian Williams			Signature Brian Williams		Month Day Year 1 16 15

GENERATOR

TRANSPORTER

DESIGNATED FACILITY



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)	21. Generator ID Number <b>MP087916188</b>	22. Page <b>2</b> of <b>2</b>	23. Manifest Tracking Number <b>000650898NAS</b>
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24. Generator's Name <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113</b>	24. Generator's Name <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740</b>
---	---

25. Transporter Company Name <b>CSX TRANSPORTATION INC</b>	U.S. EPA ID Number <b>FL0006921340</b>
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26. Transporter Company Name <b>HERITAGE TRANSPORT, LLC</b>	U.S. EPA ID Number <b>IND058484114</b>
--	---


27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

33. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name: <b>Matthew McGuire</b>	Signature: 	Month: <b>11</b>	Day: <b>16</b>	Year: <b>15</b>
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34. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name: _____	Signature: _____	Month: _____	Day: _____	Year: _____
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35. Discrepancy

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



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894247

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**

**Gen# :** 143113

**DOCUMENT :** 000650898WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 16-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	31,207
<b>Totals</b>		<b>1</b>	<b>31,207</b>

RAILCAR: NRLX 526113

Jeffrey A. Laborsky, President

AC41 CONDOLA

NEW BEDFORD

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

Form Approved. OMB No. 2050-0039



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number RFS009916188	2. Page 1 of 2	3. Emergency Response Phone (600)326-1221	4. Manifest Tracking Number 000650905WAS			
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113					
6. Transporter 1 Company Name BOULET TRUCKING INC				U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name BRUNSWICK & WORCESTER				U.S. EPA ID Number HND050030834				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-7593 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. RG, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000	K		
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. WI 0917901 TN7682377 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/2015 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 12813 526113 TRUCK NO. 5 WT 39,380 lbs 17,862 K5 ERI: HERITAGE [4895EB918]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded; and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ray Holberger - to the City of New Bedford				Signature <i>[Signature]</i>		Month Day Year 11/7/15		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Christian NORDIE				Signature <i>[Signature]</i>		Month Day Year 11/7/15	
Transporter 2 Printed/Typed Name Doreen...				Signature <i>[Signature]</i>		Month Day Year 11/7/15		
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	18b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number _____			
	Facility's Phone: _____				18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Brian Williams				Signature <i>[Signature]</i>		Month Day Year 11/16/15		

AC 41 Concord New Bedford

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number NF5089915188	22. Page of 2	23. Manifest Tracking Number 000650905WAS			
24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113		CITY OF NEW BEDFORD 101 & 103 GREENWOOD ST NEW BEDFORD, MA 02740			U.S. EPA ID Number FLD006921340		
25. Transporter Company Name CSX TRANSPORTATION INC		U.S. EPA ID Number IND058484114			26. Transporter Company Name HERITAGE TRANSPORT, LLC		
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No. Type		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
32. Special Handling Instructions and Additional Information							
DESIGNATED FACILITY - TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name						
DESIGNATED FACILITY - TRANSPORTER	34. Transporter Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name JASON ROBERTS				1	16	15
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894254

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650905WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 16-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,563
<b>Totals</b>		<b>1</b>	<b>30,563</b>

RAILCAR: NRLX 526113

Jeffrey A. Laborsky, President

AC157 GONS



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number HPE089916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650906WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name GOULET TRUCKING INC			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name PROVIDENCE & WORCESTER			U.S. EPA ID Number MA059020274			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	RG UN3492 POLYCHLORINATED BIPHENYLS, SOLID, F. PGIII (PCB REMEDIATION WASTE), ER0171	1	DT	30000 26,713	K	
14. Special Handling Instructions and Additional Information I WL 0917901 TR7682377 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 6868 5216 U.I. TRUCK NO. 6 WT 32,260 lbs 14,633 Ks ERI HERITAGE [4895590JG						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offers Printed/Typed Name Ray Holberger for the City of Bedford			Signature 		Month Day Year 11/7/15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name JEFF CROWELL			Signature 		Month Day Year 11/7/15	
Transporter 2 Printed/Typed Name DANIEL STANLEY			Signature 		Month Day Year 11/7/15	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator) Facility's Phone: _____			U.S. EPA ID Number: _____			
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Brian Williams			Signature 		Month Day Year 11/16/15	

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number <b>7P5087916188</b>	22. Page of <b>2</b>	23. Manifest Tracking Number <b>000650906WAS</b>					
24. Generator's Name <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-4133</b>		24. Generator's Name <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740</b>							
25. Transporter <b>3</b> Company Name <b>CSX TRANSPORTATION INC</b>		U.S. EPA ID Number <b>FLD006921340</b>							
26. Transporter <b>4</b> Company Name <b>HERITAGE TRANSPORT, LLC</b>		U.S. EPA ID Number <b>IND058484114</b>							
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		28. Containers		29. Total	30. Unit	31. Waste Codes		
			No.	Type	Quantity	Wt./Vol.			
32. Special Handling Instructions and Additional Information									
33. Transporter <b>3</b> Acknowledgment of Receipt of Materials									
Printed/Typed Name				Signature		Month	Day	Year	
34. Transporter <b>4</b> Acknowledgment of Receipt of Materials									
Printed/Typed Name <b>Jim Cook</b>				Signature <i>Jim Cook</i>		Month	Day	Year	
						<b>1</b>	<b>16</b>	<b>15</b>	
35. Discrepancy									
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									

GENERATOR

TRANSPORTER



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894255

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650906WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 16-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,708
<b>Totals</b>		<b>1</b>	<b>30,708</b>

RAILCAR: NRLX 526113

Jeffrey A. Laborsky, President



AC151 GONS



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MF5087716188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650909WAS				
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-8113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113						
6. Transporter 1 Company Name GOULET TRUCKING INC					U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name PROVIDENCE & WORCESTER					U.S. EPA ID Number MA0590F0834				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503870				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
		1	DT				30950	K	
							31710		
14. Special Handling Instructions and Additional Information 1 W1 0917901 T47482385 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 WT 41,220 lbs 18,697 Kg PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 6022591 TRUCK NO. ERI: HERITAGE 1489559310									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40-CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Ray Halberger For New Bedford			Signature <i>[Signature]</i>		Month Day Year 1 9 15				
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name JEFF CROWELL			Signature <i>[Signature]</i>		Month Day Year 1 9 15				
Transporter 2 Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 1 9 15				
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)			Signature		Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Brian Williams			Signature <i>[Signature]</i>		Month Day Year 1 1 22 15				

UNIFORM HAZARDOUS WASTE MANIFEST  
(Continuation Sheet)

21. Generator ID Number

MP5089916186

22. Page 2  
of 2

23. Manifest Tracking Number

000650909WAS

24. Generator's Name

CITY OF NEW BEDFORD  
133 WILLIAM ST ROOM 304  
NEW BEDFORD, MA 02740-6113

CITY OF NEW BEDFORD  
101 & 102 GREENWOOD ST  
NEW BEDFORD, MA 02740

25. Transporter 3

Company Name

CSX TRANSPORTATION INC

U.S. EPA ID Number

FLD006921340

26. Transporter 4

Company Name

HERITAGE TRANSPORT, LLC

U.S. EPA ID Number

IND058484114

27a. HM 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No. Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

32. Special Handling Instructions and Additional Information

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

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

GENERATOR

TRANSPORTER

DESIGNATED FACILITY



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894258

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650909WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 22-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	31,715
<b>Totals</b>		<b>1</b>	<b>31,715</b>

RAILCAR: GACX 9591

Jeffrey A. Laborsky, President

AC 41 GONDELA NEW BEDFORD

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number NP5089916198	22. Page of 25	23. Manifest Tracking Number 000650708WAS				
24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113		CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740						
25. Transporter <sup>3</sup> Company Name CSX TRANSPORTATION INC		U.S. EPA ID Number FLD006921340						
26. Transporter <sup>4</sup> Company Name HERITAGE TRANSPORT, LLC		U.S. EPA ID Number IND058484114						
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total	30. Unit	31. Waste Codes	
			No.	Type	Quantity	Wt./Vol.		
32. Special Handling Instructions and Additional Information								
TRANSPORTER	33. Transporter <sup>5</sup> Acknowledgment of Receipt of Materials							
	Printed/Typed Name				Signature		Month	
DESIGNATED FACILITY	34. Transporter <sup>6</sup> Acknowledgment of Receipt of Materials							
	Printed/Typed Name JASON ROBERTS				Signature <i>J. Roberts</i>		Month 1	
35. Discrepancy								
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								

AC41 GONDOLA New Bedford



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MF5089916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 00065090BWA5
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 130 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
---	---

6. Transporter 1 Company Name GOULET TRUCKING INC	U.S. EPA ID Number MAC300006038
--	------------------------------------

7. Transporter 2 Company Name EQUINOX 3 WORCESTER	U.S. EPA ID Number MAD054020834
--	------------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W ROACHDALE, IN 46178-9593 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	RG, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, POII, (PCB REMEDIATION WASTE), ERGN171	1	DT	30,000 30,066	K		

14. Special Handling Instructions and Additional Information 1. UN 0917901 TR7602283 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 600K 9571 TRUCK NO. B WT 41,720 LB 18,924 KG ERI: HERITAGE E489559218
--

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

Generator's/Offeror's Printed/Typed Name Ray Laberge for the City of New Bedford	Signature 	Month Day Year 1 9 15
---	---------------	--------------------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month Day Year
Transporter 1 Printed/Typed Name CHRISTIAN NORRIE		1 9 15
Transporter 2 Printed/Typed Name 		1 9 15

18. Discrepancy	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
-----------------	--

18b. Alternate Facility (or Generator)	Manifest Reference Number:	U.S. EPA ID Number:
Facility's Phone:		
18c. Signature of Alternate Facility (or Generator)		Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	Signature	Month Day Year
Printed/Typed Name Brian Williams		1 12 15

GENERATOR  
INTL  
TRANSPORTER  
DESIGNATED FACILITY



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894257

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650908WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 22-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,871
<b>Totals</b>		<b>1</b>	<b>30,871</b>

**RAILCAR:** GACX 9591

Jeffrey A. Laborsky, President

ACIS/ GOALS



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number RI3087916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650895WAS SWM68059000
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-8113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 191 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 149113
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6. Transporter 1 Company Name BOULET TRUCKING INC	U.S. EPA ID Number MAC300004039
--	------------------------------------

7. Transporter 2 Company Name PROVIDENCE & WORCESTER	U.S. EPA ID Number MADE9020824
---	-----------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503870
---	------------------------------------

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	RD. UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9. PGIII, (PCB REMEDIATION WASTE), ERGN171	1	DT	30000 20753	K		

14. Special Handling Instructions and Additional Information  
 U1 0917901 T#7602356  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 RAILCAR NO. 6618 310469 TRUCK NO. 9  
 ERI: HERITAGE 648755793D

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

Generator's/Offeror's Printed/Typed Name: Ray Holberger  
 Signature: [Signature]  
 Month: 1 Day: 9 Year: 15

INTL

16. International Shipment:  Import to U.S.  Export from U.S.  
 Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MICHAEL J. JAMES	Signature: [Signature]	Month: 1 Day: 9 Year: 15
Transporter 2 Printed/Typed Name: [Signature]	Signature: [Signature]	Month: 1 Day: 9 Year: 15

DESIGNATED FACILITY

18. Discrepancy:  Quantity  Type  Residue  Partial Rejection  Full Rejection  
 Manifest Reference Number: \_\_\_\_\_

18b. Alternate Facility (or Generator): \_\_\_\_\_ U.S. EPA ID Number: \_\_\_\_\_  
 Facility's Phone: \_\_\_\_\_  
 18c. Signature of Alternate Facility (or Generator): \_\_\_\_\_ Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_

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

1. H152	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [Signature] Signature: [Signature] Month: 10 Day: 21 Year: 15

UNIFORM HAZARDOUS WASTE MANIFEST  
(Continuation Sheet)

21. Generator ID Number

MP5089716188

22. Page 2  
of 2

23. Manifest Tracking Number

000450875WAS

24. Generator's Name

CITY OF NEW BEDFORD  
133 WILLIAM ST ROOM 304  
NEW BEDFORD, MA 02740-6113

CITY OF NEW BEDFORD  
101 & 102 GREENWOOD ST  
NEW BEDFORD, MA 02740

25. Transporter

Company Name CSX TRANSPORTATION INC

U.S. EPA ID Number

FLD006721340

26. Transporter

Company Name HERITAGE TRANSPORT, LLC

U.S. EPA ID Number

IND058484114

27a. HM 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No. Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

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

GENERATOR

DESIGNATED FACILITY TO GENERATOR





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894244

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650895WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916186

**DISPOSAL DATE :** 21-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	28,758
<b>Totals</b>		<b>1</b>	<b>28,758</b>

RAILCAR: GONX 310469

Jeffrey A. Laborsky, President

AC 41 *CONDOLA New Bedford*



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

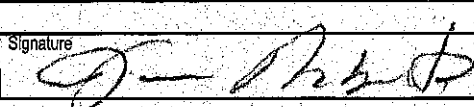
Form Approved: OMB No. 2050-0039

1. Generator ID Number <b>175089916188</b>		2. Page 1 of <b>2</b>		3. Emergency Response Phone <b>(800) 326-1221</b>		4. Manifest Tracking Number <b>000650896WAS</b>				
5. Generator's Name and Mailing Address <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2967</b>				Generator's Site Address (if different than mailing address) <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113</b>						
6. Transporter 1 Company Name <b>GULET TRUCKING INC</b>				U.S. EPA ID Number <b>MAC300006038</b>						
7. Transporter 2 Company Name <b>PROVIDENCE &amp; WORCESTER</b>				U.S. EPA ID Number <b>MA0059020834</b>						
8. Designated Facility Name and Site Address <b>HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROADDALE, IN 46172-9593 Facility's Phone: (765) 435-2704</b>				U.S. EPA ID Number <b>IND980503890</b>						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		1. <b>NO. UNS432, POLYCHLORINATED BIPHENYLS, SOLID, S, PG111, (PCB REMEDIATION WASTE), ER9H171</b>		<b>1</b>	<b>DT</b>	<b>30000</b> <i>21973</i>	<b>K</b>			
		2.								
		3.								
		4.								
14. Special Handling Instructions and Additional Information: <b>1. U.I. 0517901 107402350 EARLIEST DATE ON REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 600X 310469 TRUCK NO. 10 ERI: HERITAGE 1489558038</b>										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name <b>Mark W. Hunter</b>					Signature <i>[Signature]</i>			Month Day Year <b>1 9 15</b>	
Transporter 2 Printed/Typed Name <i>[Signature]</i>					Signature <i>[Signature]</i>			Month Day Year <b>1 9 15</b>		
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input checked="" type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone: _____										
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. <b>H132</b>		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name <i>[Signature]</i>					Signature <i>[Signature]</i>			Month Day Year <b>10/12/15</b>		

# AC41 GONDOLA NEWBEDFORD

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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number <b>MP5087916188</b>		22. Page <b>2</b> of <b>2</b>		23. Manifest Tracking Number <b>000650876WAS</b>			
		24. Generator's Name <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113</b>				24. Generator's Name <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740</b>			
25. Transporter <b>3</b> Company Name <b>CSX TRANSPORTATION INC</b>		U.S. EPA ID Number <b>FLD006921340</b>							
26. Transporter <b>4</b> Company Name <b>HERITAGE TRANSPORT, LLC</b>		U.S. EPA ID Number <b>IND058484114</b>							
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes			
		No.	Type						
32. Special Handling Instructions and Additional Information <i>2/10/15</i> <span style="float: right;">1915</span>									
33. Transporter <b>3</b> Acknowledgment of Receipt of Materials		Printed/Typed Name		Signature			Month	Day	Year
34. Transporter <b>4</b> Acknowledgment of Receipt of Materials		Printed/Typed Name <b>JASON ROBERTS</b>		Signature 			Month <b>1</b>	Day <b>21</b>	Year <b>15</b>
35. Discrepancy									
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									

GENERATOR

DESIGNATED FACILITY TO GENERATOR



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894245

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650896WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 21-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	26,998
<b>Totals</b>		<b>1</b>	<b>26,998</b>

RAILCAR: GONX 310469

Jeffrey A. Laborsky, President

AC 157 New Bedford Gondola



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MPS089716122	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650897WAS			
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)490-2987			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113					
6. Transporter 1 Company Name GOULET TRUCKING INC			U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name EQUINEMPE & UNDELETED			U.S. EPA ID Number MAD059020234					
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9298 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	RG UN3492 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII, (PCB REMEDIATION WASTE), ER0#171	1	DT	30000 30/158	K		
14. Special Handling Instructions and Additional Information 1. UN 0917901 TR7482360 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. CCKX 9591 TRUCK NO. 11 WT 46,540 lbs 21,110 kg ENI: HERITAGE [489E581]G 11 19 15								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Ray Halberger			Signature <i>[Signature]</i>			Month Day Year 11 19 15		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name CHRISTIAN NORRIE			Signature <i>[Signature]</i>			Month Day Year 11 19 15	
Transporter 2 Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>			Month Day Year 11 19 15		
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
	18b. Alternate Facility (or Generator)			U.S. EPA ID Number				
	Facility's Phone: _____			18c. Signature of Alternate Facility (or Generator)				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H122		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Brian Williams			Signature <i>[Signature]</i>			Month Day Year 11 22 15		

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number <b>MF5089916188</b>	22. Page of <b>2</b>	23. Manifest Tracking Number <b>0006508974AS</b>						
24. Generator's Name <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113</b>		24. Generator's Name <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740</b>								
25. Transporter <b>3</b> Company Name <b>CSX TRANSPORTATION INC</b>		U.S. EPA ID Number <b>FLD006921340</b>								
26. Transporter <b>4</b> Company Name <b>HERITAGE TRANSPORT, LLC</b>		U.S. EPA ID Number <b>IND058484114</b>								
GENERATOR ↓	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes			
			No.	Type						
32. Special Handling Instructions and Additional Information <i>Chlorine Gas</i>										
TRANSPORTER ↓	33. Transporter <b>3</b> Acknowledgment of Receipt of Materials		Signature				Month Day Year			
	Printed/Typed Name									
DESIGNATED FACILITY ↓	34. Transporter <b>4</b> Acknowledgment of Receipt of Materials		Signature				Month Day Year			
	Printed/Typed Name <i>Tom Stierwalt</i>		<i>[Signature]</i>				) 8/15			
35. Discrepancy										
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894246

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650897WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 22-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,463
<b>Totals</b>		<b>1</b>	<b>30,463</b>

RAILCAR: GACX 9591

Jeffrey A. Laborsky, President



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 775089916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650907WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-4113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter 1 Company Name BOULET TRUCKING, INC			U.S. EPA ID Number MAC300004038				
7. Transporter 2 Company Name EQUIDENCE & UNDELETED			U.S. EPA ID Number MAN059020834				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503870				
GENERATOR	9a. HM.	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PCBII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 29728	K	
14. Special Handling Instructions and Additional Information 1. WI 0917901 TWT602381 EARLIEST DATE OF REMOVAL FROM SERVICE 1/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 600X 31469 TRUCK NO. 12 ERI: HERITAGE [4875591]G W/ 19114 kg (4214 lb)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ray Holberger For the City of New Bedford			Signature <i>[Signature]</i>		Month Day Year 11 19 15		
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Jeff Crowell			Signature <i>[Signature]</i>		Month Day Year 1 9 15		
Transporter 2 Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 1 9 15		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
	H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 01 21 15		







**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894256

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650907WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 21-JAN-15

<u>Disposal Process : Wastestream</u>		<u># Containers</u>	<u>Total Kilograms</u>
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	27,732
<b>Totals</b>		<b>1</b>	<b>27,732</b>

RAILCAR: GONX 310469

Jeffrey A. Laborsky, President

AC41 CONDOU NEW BEDFORD



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MAE30006038	2. Page 1 of 2	3. Emergency Response Phone (800)324-1221	4. Manifest Tracking Number 000650881WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2767			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name GUILLET TRUCKING INC			U.S. EPA ID Number MAE30006038			
7. Transporter 2 Company Name INDULGENCE 1 WORCESTER			U.S. EPA ID Number MA00920834			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4970 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RG. UN3482, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	20,230 29432	K	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information I M1 0917901 TR7482328 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 74X 3649 TRUCK NO. 13 WT 44,600 lbs 20,230 K ERI: HERITAGE [489556536]						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name Ray H. Berger For the City of Bedford			Signature Ray H. Berger		Month Day Year 11/12/15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Mark W. Hunter			Signature Mark W. Hunter		Month Day Year 11/12/15	
Transporter 2 Printed/Typed Name Dennis St...			Signature Dennis St...		Month Day Year 11/12/15	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Brian Williams			Signature Brian Williams		Month Day Year 11/22/15	





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894230

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650881WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 22-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,438
<b>Totals</b>		<b>1</b>	<b>29,438</b>

RAILCAR: TILX 3649

Jeffrey A. Laborsky, President

AC151 G025



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MP5087716188	2. Page 1 of 2	3. Emergency Response Phone (800) 326-1221	4. Manifest Tracking Number 000650882WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 138 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name GOULET TRUCKING INC			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name BRIDGE & WORCESTER			U.S. EPA ID Number MAN059020834			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W ROADDALE, IN 46172-9593 Facility's Phone: (745) 435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
1	RG UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9. PB11 (PCB REMEDIATION WASTE), EX04171	1	DT	30000 29.351	K	
2						
3						
4						
14. Special Handling Instructions and Additional Information 1. M1 QP17901 IN7492230 EARLIEST DATE OF REMOVAL FROM SERVICE 1.7.15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 7423099 TRUCK NO. 14 WT 40,800 1/2 18,506 KG ERI: HERITAGE C487550018						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export, shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Ray Volzinger for the City of Bedford			Signature <i>[Signature]</i>		Month Day Year 11 12 15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Mark W Hunter			Signature <i>[Signature]</i>		Month Day Year 11 12 15	
Transporter 2 Printed/Typed Name Dennis Jones			Signature <i>[Signature]</i>		Month Day Year 11 12 15	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator) Facility's Phone: _____ U.S. EPA ID Number: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Brian Williams			Signature <i>[Signature]</i>		Month Day Year 11 12 15	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894231

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650882WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188  
**DISPOSAL DATE :** 22-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,356
<b>Totals</b>		<b>1</b>	<b>29,356</b>

RAILCAR: TILX 3649

Jeffrey A. Laborsky, President



AC157 New Bedford  
Gondola



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

Form Approved OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number MF5089916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650883WAS
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 183 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2567			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113		
6. Transporter 1 Company Name GOULET TRUCKING INC			U.S. EPA ID Number MAC300006038		
7. Transporter 2 Company Name ERVIDENCE & INVESTIG			U.S. EPA ID Number MAD059020834		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-7593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503870		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	EQ. UN3492; POLYCHLORINATED BIPHENYLS, SOLID, P, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	50000 21671	K
14. Special Handling Instructions and Additional Information I WI 0917901 TW7682332 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 wt 41,380 lbs PRE-PRINTED WEIGHT IS AN ESTIMATE 18,770 Ks RAILCAR NO. 71X 3049 TRUCK NO. 15 ERI: HERITAGE 1489556716					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offeror's Printed/Typed Name Ray Hilberg			Signature <i>[Signature]</i>		Month Day Year 11/12/15
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Mark W Hunt			Signature <i>[Signature]</i>		Month Day Year 11/12/15
Transporter 2 Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 11/12/15
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____					
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.	2.	3.	4.		
	H132				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Brian Williams			Signature <i>[Signature]</i>		Month Day Year 11/22/15

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)	21. Generator ID Number MP5089916188	22. Page <u>2</u> of <u>2</u>	23. Manifest Tracking Number 000650883WAS
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24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113	CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740
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25. Transporter <u>3</u> Company Name CSX TRANSPORTATION INC	U.S. EPA ID Number FLD006921340
--	------------------------------------

26. Transporter <u>4</u> Company Name HERITAGE TRANSPORT, LLC	U.S. EPA ID Number IND058484114
---	------------------------------------

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes			
		No.	Type						

32. Special Handling Instructions and Additional Information
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GENERATOR	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____	Month _____	Day _____	Year _____
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TRANSPORTER	34. Transporter <u>4</u> Acknowledgment of Receipt of Materials Printed/Typed Name <u>Tom Stierwall</u> Signature <u>[Signature]</u>	Month <u>11</u>	Day <u>22</u>	Year <u>15</u>
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DESIGNATED FACILITY	35. Discrepancy
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36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
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**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894232

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650883WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 22-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	28,676
<b>Totals</b>		<b>1</b>	<b>28,676</b>

RAILCAR: TILX 3649

Jeffrey A. Laborsky, President



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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number MF5089914189	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650884WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter 1 Company Name GOMLET TRUCKING INC			U.S. EPA ID Number MAE300006038				
7. Transporter 2 Company Name SERVICENCE 2 WORCESTER			U.S. EPA ID Number MA0059020834				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, III, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 30,170	K		
14. Special Handling Instructions and Additional Information 1. U# 0917901 T#7682234 EPA TEST DATE OF REMOVAL FROM SERVICE 1-7-15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 002 32257 TRUCK NO. 16 ERI: HERITAGE (489556816) at 215516							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Roy Halberg					Signature <i>[Signature]</i>		Month Day Year 11 13 15
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Mark W. Hunter Signature: <i>[Signature]</i> Month Day Year: 01 13 15 Transporter 2 Printed/Typed Name: _____ Signature: <i>[Signature]</i> Month Day Year: 11 13 15							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____ 18b. Alternate Facility (or Generator): _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator): _____ Month Day Year: _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Month Day Year: 01 13 15							

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number NP5087914108	22. Page <u>3</u> of <u>3</u>	23. Manifest Tracking Number 000450684WAS			
24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113		CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740					
25. Transporter <u>3</u> Company Name <b>CSX TRANSPORTATION INC</b>			U.S. EPA ID Number FLD006921340				
26. Transporter <u>4</u> Company Name <b>HERITAGE TRANSPORT, LLC</b>			U.S. EPA ID Number IND058484114				
27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	
		No.	Type				
32. Special Handling Instructions and Additional Information <i>Accepted by</i> <span style="float:right">01 13 15</span>							
TRANSPORTER	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name						
TRANSPORTER	34. Transporter <u>4</u> Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name <b>Nick Harding</b>		<i>Nick Harding</i>		1	31	15
DESIGNATED FACILITY	35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

GENERATOR

TRANSPORTER

DESIGNATED FACILITY



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894233

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650884WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 31-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,445
<b>Totals</b>		<b>1</b>	<b>30,445</b>

RAILCAR: CEFX 32757

Jeffrey A. Laborsky, President



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>MA5089716188</b>	2. Page 1 of <b>2</b>	3. Emergency Response Phone <b>(800)326-1221</b>	4. Manifest Tracking Number <b>000650885WAS</b>	
5. Generator's Name and Mailing Address <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-4113 Generator's Phone: (508)400-2967</b>			Generator's Site Address (if different than mailing address) <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113</b>			
6. Transporter 1 Company Name <b>SOULET TRUCKING INC</b>			U.S. EPA ID Number <b>MA2300004038</b>			
7. Transporter 2 Company Name <b>SPRINGFIELD &amp; WORCESTER</b>			U.S. EPA ID Number <b>MA0059020834</b>			
8. Designated Facility Name and Site Address <b>HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704</b>			U.S. EPA ID Number <b>IND980503890</b>			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unif. Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. <b>RD, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG111, (PCB REMEDIATION WASTE), ERG#171</b>	1	DT	29,138	K	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information <b>1. UN 0917901 T#7682336 EARLIEST DATE OF REMOVAL FROM SERVICE <u>1/7/15</u> PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. <u>0013257</u> TRUCK NO. <u>17</u> <span style="float:right">at 2052910 (4526019)</span> ERI: HERITAGE <span style="float:right">[489556936]</span></b>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offero's Printed/Typed Name <b>Ray H. Berger</b>				Signature <i>[Signature]</i>		Month Day Year <b>1 13 15</b>
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <b>Mark W. Hunter</b>				Signature <i>[Signature]</i>		Month Day Year <b>1 13 15</b>
Transporter 2 Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year <b>1 13 15</b>
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)						U.S. EPA ID Number
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
	<b>H3.32</b>					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year <b>1 13 15</b>

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)	21. Generator ID Number <b>RP5089916188</b>	22. Page <b>2</b> of <b>2</b>	23. Manifest Tracking Number <b>000650885WAS</b>
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24. Generator's Name <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113</b>	24. Generator's Name <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740</b>
---	---

25. Transporter <u>3</u> Company Name <b>CEX TRANSPORTATION INC</b>	U.S. EPA ID Number <b>FL0006921340</b>
---	---

26. Transporter <u>4</u> Company Name <b>HERITAGE TRANSPORT, LLC</b>	U.S. EPA ID Number <b>IND058484114</b>
--	---

27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information	<i>[Handwritten notes]</i>
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33. Transporter <u>3</u>	Acknowledgment of Receipt of Materials	Signature	Month Day Year
Printed/Typed Name	<i>Matthew L. McGuire</i>	<i>[Signature]</i>	1   31   15
34. Transporter <u>4</u>	Acknowledgment of Receipt of Materials	Signature	Month Day Year
Printed/Typed Name			

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





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894234

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650885WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 31-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	27,143
<b>Totals</b>		<b>1</b>	<b>27,143</b>

RAILCAR: CEFX 32757

Jeffrey A. Laborsky, President



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

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NF5089916188	2. Page 1 of 2	3. Emergency Response Phone (800) 326-1221	4. Manifest Tracking Number 000650886WAS			
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113					
6. Transporter 1 Company Name GOULET TRUCKING INC			U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name PROVIDENCE & WORCESTER			U.S. EPA ID Number MAD059020834					
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N KOACHDALE, IN 46172-9593 Facility's Phone: (785) 435-2704			U.S. EPA ID Number IND980503890					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
	X	RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30500 29,589	K		
14. Special Handling Instructions and Additional Information 1. U1 0917901 TR7682338 EARLIEST DATE OF REMOVAL FROM SERVICE 1/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 1001 2957 TRUCK NO. 18 ERI: HERITAGE C489557010								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offero's Printed/Typed Name Step Halberger For the City of New Bedford			Signature <i>[Signature]</i>		Month Day Year 11/13/15			
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:					
	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Mark W Hunter		Signature <i>[Signature]</i>		Month Day Year 11/13/15			
Transporter 2 Printed/Typed Name Wanda Jones		Signature <i>[Signature]</i>		Month Day Year 11/13/15				
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Typa <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	18b. Alternate Facility (or Generator)			U.S. EPA ID Number				
	Facility's Phone:			Month Day Year				
18c. Signature of Alternate Facility (or Generator)								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. M132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 11/13/15			

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)	21. Generator ID Number MP5089916188	22. Page of 2	23. Manifest Tracking Number 00059886WAS
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24. Generator's Name CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113	CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740
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25. Transporter Company Name CSX TRANSPORTATION INC	U.S. EPA ID Number FL0004721340
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26. Transporter Company Name HERITAGE TRANSPORT, LLC	U.S. EPA ID Number IND05B484114
--	------------------------------------

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name	Signature	Month	Day	Year
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34. Transporter Acknowledgment of Receipt of Materials Printed/Typed Name <i>Ken Melvin</i>	Signature <i>Ken Melvin</i>	Month <i>7</i>	Day <i>31</i>	Year <i>15</i>
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35. Discrepancy

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



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894235

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650886WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 31-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,592
<b>Totals</b>		<b>1</b>	<b>29,592</b>

RAILCAR: CEFX 32757

Jeffrey A. Laborsky, President

ACISI GONS



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MP2089916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650887WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name GOULET TRUCKING INC			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name SERUENTENCE & UNDELETED			U.S. EPA ID Number HAD059020834			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4870 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9573 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RG, UN3482, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG1171	1		DT	22000	K
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information I, U1 0917901 T#7682340 EARLIEST DATE OF REMOVAL FROM SERVICE 1/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. CRR1207132 TRUCK NO. 19 ERI: HERITAGE (489557116) cat: 1917843 (4228016)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generators/Offeror's Printed/Typed Name Ray Hilbergency			Signature 		Month Day Year 11 14 15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Marcou Boissonnault Signature: Marcou Boissonnault Month Day Year: 11 14 15 Transporter 2 Printed/Typed Name: Signature: Month Day Year: 11 14 15						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:						
18b. Alternate Facility (or Generator) Facility's Phone:			U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Signature: Month Day Year: 1 01 20 15						

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number MP5089916188		22. Page <u>4</u> of <u>4</u>		23. Manifest Tracking Number 000450887WAS			
24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113				CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740					
25. Transporter <u>3</u> Company Name CSX TRANSPORTATION INC				U.S. EPA ID Number FL0006921340					
26. Transporter <u>4</u> Company Name HERITAGE TRANSPORT, LLC				U.S. EPA ID Number IND050484114					
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	
				No.	Type				
32. Special Handling Instructions and Additional Information									
TRANSPORTER	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials								
	Printed/Typed Name				Signature		Month	Day	Year
DESIGNATED FACILITY	34. Transporter <u>4</u> Acknowledgment of Receipt of Materials								
	Printed/Typed Name <i>Jim Cook</i>				Signature <i>Jim Cook</i>		Month <u>1</u>	Day <u>30</u>	Year <u>15</u>
35. Discrepancy									
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894236

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650887WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream

		<u># Containers</u>	<u>Total Kilograms</u>
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	32,105
<b>Totals</b>		<b>1</b>	<b>32,105</b>

RAILCAR: CIGX 803432

Jeffrey A. Laborsky, President

AC41 Concordia New Bedford



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MF5089916188	2. Page 1 of 2	3. Emergency-Response Phone (800)326-1221	4. Manifest Tracking Number 000650888WAS
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-4113 Generator's Phone: (508)400-2767			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113		
6. Transporter 1 Company Name GOWLET TRUCKING INC		U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name BENNINGTON & WINCHESTER		U.S. EPA ID Number IND980503890			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N KOACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII, (PCB REMEDIATION WASTE), ERG#171	1	DT	31005	K
	2.				
	3.				
	4.				
14. Special Handling Instructions and Additional Information I, W1 0917701 T#7682342 EARLIEST DATE OF REMOVAL FROM SERVICE 1/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 26X 503432 TRUCK NO. 300 ERI: HERITAGE 1979SK (4364616) [489557210]					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offendor's Printed/Typed Name R. Williams for the City of New Bedford				Signature [Signature]	
				Month Day Year 11 14 15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name S. Aubue		Signature [Signature]		Month Day Year 11 14 15	
Transporter 2 Printed/Typed Name Dennis St...		Signature [Signature]		Month Day Year 11 14 15	
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
18c. Signature of Alternate Facility (or Generator) Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.	2.	3.	4.		
	H132				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name [Signature]				Signature [Signature]	
				Month Day Year 10 13 15	

GENERATOR  
TRANSPORTER  
DESIGNATED FACILITY







**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894237

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650888WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	34,010
<b>Totals</b>		<b>1</b>	<b>34,010</b>

RAILCAR: CIGX 803432

Jeffrey A. Laborsky, President

AC43 New Bedford Gondola



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

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MF508991618B	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650889WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
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6. Transporter 1 Company Name BOULET TRUCKING INC	U.S. EPA ID Number MAE39000403B
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7. Transporter 2 Company Name PROUDENCE & WORCESTER	U.S. EPA ID Number MA0059020R34
--	------------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
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9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	RG, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 29342	K			

14. Special Handling Instructions and Additional Information  
 1. WI 0917901 107482344  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 RAILCAR NO. 2761803432 TRUCK NO. 21  
 ERI: HERITAGE 1489557310  
 CA: 21491K (473006)

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

Generator's/Offeror's Printed/Typed Name: *Ry. H. Hayes* Signature: *[Signature]* Month: 11 Day: 14 Year: 15

16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *Jeff Crowell* Signature: *[Signature]* Month: 11 Day: 14 Year: 15

Transporter 2 Printed/Typed Name: *[Signature]* Signature: *[Signature]* Month: 11 Day: 14 Year: 15

18. Discrepancy

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

Manifest Reference Number: \_\_\_\_\_

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

Facility's Phone: \_\_\_\_\_

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

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

1. H132	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: *[Signature]* Signature: *[Signature]* Month: 10 Day: 30 Year: 15





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894238

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650889WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,347
<b>Totals</b>		<b>1</b>	<b>29,347</b>

RAILCAR: CIGX 803432

Jeffrey A. Laborsky, President

AC151 G005



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MP5089916188	2. Page 1 of 2	3. Emergency Response Phone (800)324-1221	4. Manifest Tracking Number 000650890WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
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6. Transporter 1 Company Name BOULET TRUCKING INC	U.S. EPA ID Number MAC30006038
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7. Transporter 2 Company Name PROVIDENCE & WORCESTER	U.S. EPA ID Number NAD059070834
---	------------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS SOLID, 7, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 22.560	kg			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information  
 1. WI 0917901 TH7082346  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 RAILCAR NO. 3774 TRUCK NO. 22  
 ERI: HERITAGE (487557410)  
 al. 200214  
 (44/46/14)

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

Generator's/Offero's Printed/Typed Name Ray W. Boyer from the City of New Bedford	Signature 	Month Day Year 1/14/15
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16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name S. Audette	Signature 	Month Day Year 1/14/15
Transporter 2 Printed/Typed Name David St...	Signature 	Month Day Year 1/14/15

18. Discrepancy  
 18a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection  
 Manifest Reference Number:

18b. Alternate Facility (or Generator) Facility's Phone:	U.S. EPA ID Number
---	--------------------

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

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

1. H132	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name 	Signature 	Month Day Year 1/13/15
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GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894239

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650890WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	32,586
<b>Totals</b>		<b>1</b>	<b>32,586</b>

RAILCAR: CEFX 32748

Jeffrey A. Laborsky, President



AC41 CONDOLA



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

New Bedford

Form Approved - OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number NF5087916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650891WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name BOULET TRUCKING INC.				U.S. EPA ID Number MAC300006038		
7. Transporter 2 Company Name EQUIDENCE & WORCESTER				U.S. EPA ID Number MAD059020834		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30500 30358	K	
14. Special Handling Instructions and Additional Information LWI 0917901 107682348 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 001 2246 TRUCK NO. 33 ERI: HERITAGE wt. 183526 (4046016) (489557530)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Peter H. Berger for the City of New Bedford				Signature 		Month Day Year 1   14   15
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name MARCEL BOISSONNAULT				Signature 		Month Day Year 1   14   15
Transporter 2 Printed/Typed Name Daniel...				Signature 		Month Day Year 1   14   15
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number: Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name 				Signature 		Month Day Year 10   30   15

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY





Facility : HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

Stop : 1894240

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**

Gen# : 143113

DOCUMENT : 000650891WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

EPA ID NUMBER : MP5089916188

DISPOSAL DATE : 30-JAN-15

Disposal Process : Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,363
Totals		1	30,363

RAILCAR: CEFX 32746

Jeffrey A. Laborsky, President

AK43 New Bedford  
Condola



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NFE089916188	2. Page 1 of 2	3. Emergency Response Phone (800) 326-1221	4. Manifest Tracking Number 000650892WAS					
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113							
6. Transporter 1 Company Name GOULET TRUCKING INC				U.S. EPA ID Number MAC300006038						
7. Transporter 2 Company Name PROVIDENCE & WORCESTER				U.S. EPA ID Number HND05020834						
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4070 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765) 435-2704				U.S. EPA ID Number IND980503890						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes				
		No.	Type							
		1	RD, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE), ERG#171				1	DT	26776	K
		2								
		3								
4										
14. Special Handling Instructions and Additional Information I will 0917901 147682350 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. (ERI) 37746 TRUCK NO. 24 ERI: HERITAGE 1489557410										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name R. H. Bergeron for the City of New Bedford				Signature [Signature]		Month Day Year 1 14 15				
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name JCAP Crowell			Signature [Signature]		Month Day Year 1 14 15					
Transporter 2 Printed/Typed Name [Signature]			Signature [Signature]		Month Day Year 1 14 15					
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
Manifest Reference Number:										
18b. Alternate Facility (or Generator)				U.S. EPA ID Number						
Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)				Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name [Signature]				Signature [Signature]		Month Day Year 1 01 30 15				

GENERATOR

TRANSPORTER (INTL)

DESIGNATED FACILITY





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894241

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650892WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	26,760
<b>Totals</b>		<b>1</b>	<b>26,780</b>

RAILCAR: CEFX 32746

Jeffrey A. Laborsky, President

AC 151 G005



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number HPC000971A188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000658618WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 149113			
6. Transporter 1 Company Name ROULET TRUCKING INC			U.S. EPA ID Number MACR0000A038			
7. Transporter 2 Company Name HERITAGE ENVIRONMENTAL SERVICES			U.S. EPA ID Number IND980503870			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W ROACHDALE, IN 46172-9593 Facility's Phone: (765)695-2704			U.S. EPA ID Number IND980503870			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	KG, UN3439, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ER04171	1	DT	25000 24,467	K	
14. Special Handling Instructions and Additional Information 1. UN 3917901 1M7402312 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 2051 22169 TRUCK NO. 25 ERI HERITAGE 1480555716 at: 188694 (4/6004)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Ray Volzger			Signature <i>[Signature]</i>		Month Day Year 1 15 15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Marcos Boissonault Signature <i>[Signature]</i> Month Day Year 1 15 15 Transporter 2 Printed/Typed Name Derek Starn Signature <i>[Signature]</i> Month Day Year 1 15 15						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number _____						
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name <i>[Signature]</i> Signature <i>[Signature]</i> Month Day Year 1 15 15						







**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894222

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658618WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	34,473
<b>Totals</b>		<b>1</b>	<b>34,473</b>

RAILCAR: CEFX 32169

Jeffrey A. Laborsky, President

AC 41 GORDON BEDFORD



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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number MF5089916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650902WAS					
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 BEN: 143113							
6. Transporter 1 Company Name GOULET TRUCKING INC					U.S. EPA ID Number MAC3000060318					
7. Transporter 2 Company Name SQUIDENCE & WORCESTER					U.S. EPA ID Number MA059070834					
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
				No.	Type					
	X	1. RG UN3482, POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE), ERGM171		1	DT	30,621	K			
		2.								
		3.								
	4.									
14. Special Handling Instructions and Additional Information L WL 0817901 T47502271 EARLIEST DATE OF REMOVAL FROM SERVICE 1/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 31169 TRUCK NO. 26 ERI: HERITAGE [48958610] <i>at 18539kg (40960 lb)</i>										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name: Ray Holbergon For the City of New Bedford Signature: [Signature] Month: 1 Day: 15 Year: 15										
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Jeff Crowell Signature: [Signature] Month: 1 Day: 15 Year: 14 Transporter 2 Printed/Typed Name: [Signature] Signature: [Signature] Month: 1 Day: 15 Year: 15									
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number:									
	18b. Alternate Facility (or Generator) U.S. EPA ID Number: Facility's Phone:									
	18c. Signature of Alternate Facility (or Generator) Month: Day: Year:									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.										
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: [Signature] Signature: [Signature] Month: 01 Day: 29 Year: 15										





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894251

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650902WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,626
<b>Totals</b>		<b>1</b>	<b>30,626</b>

RAILCAR: CEFX 32169

Jeffrey A. Laborsky, President

AC 43 New Bedford  
Gondola



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MA508991A188	2. Page 1 of 2	3. Emergency Response Phone (800) 324-1221	4. Manifest Tracking Number 000658619WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter 1 Company Name GOLLET TRUCKING INC					U.S. EPA ID Number MA630000A038		
7. Transporter 2 Company Name HERITAGE ENVIRONMENTAL SERVICES					U.S. EPA ID Number MA058030834		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765) 435-2704					U.S. EPA ID Number IND980503890		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9. PGII, (PCB REMEDIATION WASTE), ERG#171	1	DT	3000 32118	K	
14. Special Handling Instructions and Additional Information I, W1 0917901 T07682914 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAT CAR NO. 32119 TRUCK NO. 257 FRT. HERITAGE (48855816) wt: 18624kg (41060lb)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ray Halbergen for the City of New Bedford			Signature 		Month Day Year 1/15/15		
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Ryan Nichols			Signature 		Month Day Year 1/15/15		
Transporter 2 Printed/Typed Name Drew Stone			Signature 		Month Day Year 1/15/15		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)					Manifest Reference Number: _____ U.S. EPA ID Number _____		
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Drew Stone			Signature 		Month Day Year 01/29/15		

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)	21. Generator ID Number <b>NP5089716169</b>	22. Page <b>2</b> of <b>2</b>	23. Manifest Tracking Number <b>000658619WAS</b>
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24. Generator's Name <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113</b>	CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740
---	--

25. Transporter <sup>3</sup> Company Name <b>CSX TRANSPORTATION INC</b>	U.S. EPA ID Number <b>FLD004921340</b>
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26. Transporter <sup>4</sup> Company Name <b>HERITAGE TRANSPORT, LLC</b>	U.S. EPA ID Number <b>IND058484114</b>
--	---

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information

33. Transporter <sup>3</sup> Acknowledgment of Receipt of Materials Printed/Typed Name	Signature	Month	Day	Year
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34. Transporter <sup>4</sup> Acknowledgment of Receipt of Materials Printed/Typed Name <i>Tom Stierwell</i>	Signature <i>[Signature]</i>	Month	Day	Year
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35. Discrepancy

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



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894223

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658619WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916186

**DISPOSAL DATE :** 29-JAN-15

**Disposal Process :** Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	32,123
<b>Totals</b>		<b>1</b>	<b>32,123</b>

RAILCAR: CEFX 32169

Jeffrey A. Laborsky, President

ACISI GONS



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number DE5089914188	2. Page 1 of 2	3. Emergency Response Phone (800)324-1221	4. Manifest Tracking Number 000658611WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-5113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
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6. Transporter 1 Company Name BOULET TRUCKING INC	U.S. EPA ID Number MA030004038
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7. Transporter 2 Company Name SULLIVANCE & WOODRICK	U.S. EPA ID Number MA059020834
--	-----------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	RO, UN3482, POLYCHLORINATED BIPHENYLS, SOLID, 9, PBIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 30 261	K	

14. Special Handling Instructions and Additional Information  
 1 M1 0917901 T#7682298  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 RAIL CAR NO C162 513856 TRUCK NO 28  
 FRT-HERITAGE 148955010  
 at 188784 (4162016)

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

Generator's/Offeror's Printed/Typed Name: *Ray Abago to the City* Signature: *[Signature]* Month: 1 Day: 15 Year: 15

16. International Shipments:  Import to U.S.  Export from U.S. Port of entry/exit: Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials  
 Transporter 1 Printed/Typed Name: Marcel Boissonault Signature: *[Signature]* Month: 1 Day: 15 Year: 15

Transporter 2 Printed/Typed Name: *[Signature]* Signature: *[Signature]* Month: 1 Day: 15 Year: 15

18. Discrepancy  
 18a. Discrepancy Indication Space:  Quantity  Type  Residue  Partial Rejection  Full Rejection  
 Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number:  
 Facility's Phone:

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

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)  
 1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a  
 Printed/Typed Name: *[Signature]* Signature: *[Signature]* Month: 01 Day: 29 Year: 15







**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890      **Stop :** 1894215

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658611WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	28,286
<b>Totals</b>		<b>1</b>	<b>28,286</b>

RAILCAR: CIGX 803356

Jeffrey A. Laborsky, President

AC41 Concord New Bedford



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NPE10951A188	2. Page 1 of 2	3. Emergency Response Phone 18001324-1221	4. Manifest Tracking Number 000658612W45	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2957			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name ROULET TRUCKING INC			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name HERITAGE ENVIRONMENTAL SERVICES			U.S. EPA ID Number IND980503890			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W BOACENDALE, IN 46172-9293 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RQ, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9. PG111, (PCB REMEDIATION WASTE), ERGN171	1	DT	30400 27429	K	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. UN 0917901 187482300 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/14 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 764 107356 TRUCK NO. 29 FRT: HERITAGE CA: 18162A (400406) 148955E116						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Ray Habergo			Signature 		Month Day Year 11 15 15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Ryan Nichols			Signature 		Month Day Year 11 15 15	
Transporter 2 Printed/Typed Name David Stank			Signature 		Month Day Year 11 15 15	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name David Stank			Signature 		Month Day Year 01 29 15	

AC41 CONDOLA New Bedford

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MP5089916188	22. Page of 2 2 2	23. Manifest Tracking Number 00065B612WAS			
24. Generator's Name CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 804 NEW BEDFORD, MA 02740-6113		CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740					
25. Transporter <u>3</u> Company Name CSX TRANSPORTATION INC		U.S. EPA ID Number FL0006921340					
26. Transporter <u>4</u> Company Name HERITAGE TRANSPORT, LLC		U.S. EPA ID Number IND058484114					
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No. Type		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
32. Special Handling Instructions and Additional Information							
TRANSPORTER	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name						
DESIGNATED FACILITY	34. Transporter <u>4</u> Acknowledgment of Receipt of Materials		Signature		Month	Day	Year
	Printed/Typed Name JASON ROBERTS				1	29	15
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894218

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :** Gen# : 143113

**DOCUMENT :** 000658612WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

<u>Disposal Process : Wastestream</u>		<u># Containers</u>	<u>Total Kilograms</u>
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	27,433
<u>Totals</u>		<u>1</u>	<u>27,433</u>

RAILCAR: CIGX 803356

Jeffrey A. Laborsky, President

AC43 New Bedford  
Gondola



Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved: OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MA50R991A188	2. Page 1 of 2	3. Emergency Response Phone (800) 324-1221	4. Manifest Tracking Number 000658613WAS					
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 149113							
6. Transporter 1 Company Name GONNET TRUCKING INC			U.S. EPA ID Number MAC300066038							
7. Transporter 2 Company Name PROVIDENCE & WORCESTER			U.S. EPA ID Number MA069020834							
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (745) 435-2704			U.S. EPA ID Number IND980503890							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
			No.	Type						
	X	RO. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PBIII (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 29,170	K				
14. Special Handling Instructions and Additional Information 1. NI 0917901 T#7682302 EARLIEST DATE OF REMOVAL FROM SERVICE <u>1/17/15</u> PRE-PRINTED WEIGHT IS AN ESTIMATE RAIL CAR NO. <u>CTAV 002257</u> TRUCK NO. <u>30</u> FRI. HERITAGE T484555210 at. 2090145 (46080) (6)										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name <u>Ray Halligan For the City of New Bedford</u>						Signature <u>[Signature]</u>			Month Day Year <u>1/15/15</u>	
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name <u>Teff Crowell</u>						Signature <u>[Signature]</u>			Month Day Year <u>1/15/15</u>
Transporter 2 Printed/Typed Name <u>[Signature]</u>						Signature <u>[Signature]</u>			Month Day Year <u>1/15/15</u>	
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	18b. Alternate Facility (or Generator)						Manifest Reference Number: _____ U.S. EPA ID Number _____			
	Facility's Phone: _____						Month Day Year _____			
18c. Signature of Alternate Facility (or Generator) _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. <u>H132</u>			2. _____			3. _____			4. _____	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a										
Printed/Typed Name <u>[Signature]</u>						Signature <u>[Signature]</u>			Month Day Year <u>1/15/15</u>	

UNIFORM HAZARDOUS WASTE MANIFEST  
(Continuation Sheet)

21. Generator ID Number

NP5087916180

22. Page  
of 2

23. Manifest Tracking Number

000658613WAS

24. Generator's Name

CITY OF NEW BEDFORD  
133 WILLIAM ST ROOM 304  
NEW BEDFORD, MA 02740-6113

CITY OF NEW BEDFORD  
101 & 102 GREENWOOD ST  
NEW BEDFORD, MA 02740

25. Transporter

Company Name CEX TRANSPORTATION INC

U.S. EPA ID Number

FLD006921340

26. Transporter

Company Name HERITAGE TRANSPORT, LLC

U.S. EPA ID Number

IND058484114

27a. HM 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

35. Discrepancy

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

GENERATOR

TRANSPORTER

DESIGNATED FACILITY



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894217

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658613WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,175
<b>Totals</b>		<b>1</b>	<b>29,175</b>

RAILCAR: CIGX 803356

Jeffrey A. Laborsky, President





<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number 0000000000	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000658614WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 130 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-4113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name QUINT TRUCKING INC			U.S. EPA ID Number MAC300004035			
7. Transporter 2 Company Name ERIDENCE & INVESTIGATION			U.S. EPA ID Number MAD00000034			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	KG. UN3482, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERGN171	1	DT	20000 21678	K	
14. Special Handling Instructions and Additional Information 1. U1 0917901 1#7682304 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. 33090 TRUCK NO. 31 ERI HERITAGE 148255310						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offere's Printed/Typed Name By Holberg for the City of New Bedford					Signature [Signature] Month Day Year 1   16   15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: MARCEL BOISSONNAULT Signature: [Signature] Month Day Year: 1   16   15 Transporter 2 Printed/Typed Name: [Signature] Signature: [Signature] Month Day Year: 1   16   15						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number: Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year:						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: [Signature] Signature: [Signature] Month Day Year: 10   13   15						





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894218

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658614WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 31-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,683
<b>Totals</b>		<b>1</b>	<b>29,683</b>

RAILCAR: CEFX 32090

Jeffrey A. Laborsky, President



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number MP500991A188	2. Page 1 of 2	3. Emergency Response Phone (800)376-1221	4. Manifest Tracking Number 000658615WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-5113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
---	---

6. Transporter 1 Company Name CORNET TRUCKING INC	U.S. EPA ID Number MAC300004038
--	------------------------------------

7. Transporter 2 Company Name CORNET TRUCKING INC	U.S. EPA ID Number MAC300004038
--	------------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46178-9593 Facility's Phone: (745)435-2704	U.S. EPA ID Number IND980503890
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10: Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG, UN3482, POLYCHLORINATED BIPHENYLS, SOLID, 7. #6111, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 75 173	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information  
 UJL 0917901 TH7682306  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 RAIL CAR NO. 500 22290 TRUCK NO. 302 PRI-HERITAGE 148955216  
 W. of 1979514  
 (436404)

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

Generator's/Offoror's Printed/Typed Name: Ray Holberger Signature: [Signature] Month: 11 Day: 16 Year: 15

16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: M FARNSWORTH Signature: [Signature] Month: 11 Day: 16 Year: 15

Transporter 2 Printed/Typed Name: [Signature] Signature: [Signature] Month: 11 Day: 16 Year: 15

18. Discrepancy

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

Manifest Reference Number: \_\_\_\_\_

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

Facility's Phone: \_\_\_\_\_

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

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

1. H132 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

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

Printed/Typed Name: [Signature] Signature: [Signature] Month: 10 Day: 13 Year: 15

GENERATOR  
TRANSPORTER INT'L  
TRANSPORTER  
DESIGNATED FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number NPS0877916192	22. Page of	23. Manifest Tracking Number 000658615H45						
24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113		CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740								
25. Transporter <sup>3</sup> Company Name CSX TRANSPORTATION INC		U.S. EPA ID Number FLD006921340								
26. Transporter <sup>4</sup> Company Name HERITAGE TRANSPORT, LLC		U.S. EPA ID Number IND058484114								
GENERATOR	27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes			
32. Special Handling Instructions and Additional Information										
TRANSPORTER	33. Transporter <sup>3</sup> Acknowledgment of Receipt of Materials		Printed/Typed Name			Signature		Month	Day	Year
	34. Transporter <sup>4</sup> Acknowledgment of Receipt of Materials		Printed/Typed Name <i>Nick Harding</i>			Signature <i>[Signature]</i>		1	31	15
DESIGNATED FACILITY	35. Discrepancy									
	36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									



**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894219

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658615WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 31-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	28,177
Totals		1	28,177

RAILCAR: CEFX 32090

Jeffrey A. Laborsky, President



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number NE508897A188	2. Page 1 of 3	3. Emergency Response Phone (800)324-1221	4. Manifest Tracking Number 000658616MAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter-1 Company Name BOLLET TRUCKING INC			U.S. EPA ID Number MAE300064088				
7. Transporter 2 Company Name SQUATRENE & UNDECKER			U.S. EPA ID Number IND980503890				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2705			U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RG, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9-PGIII, (PCB REMEDIATION WASTE), ERM#171	1	DT	30000 29 315	K	
		2.					
		3.					
14. Special Handling Instructions and Additional Information 1. NI 0917901 TN7482308 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAIL CAR NO/FEV 32290 TRUCK NO 33 al: 17672 Hs (38960) ERI-HERITAGE 148755510							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Ray Halberger			Signature <i>Ray Halberger</i>		Month Day Year 1   16   15		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1: Printed/Typed Name: Signature: Month Day Year Jeff Crowell <i>Jeff Crowell</i> 1   16   15 Transporter 2 Printed/Typed Name: Signature: Month Day Year Derek Stuebel <i>Derek Stuebel</i> 1   16   15							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number: Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
	H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Signature: Month Day Year <i>[Signature]</i> 10   31   15							







**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894220

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658616WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 31-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,220
<b>Totals</b>		<b>1</b>	<b>29,220</b>

RAILCAR: CEFX 32090

Jeffrey A. Laborsky, President



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number <b>MAE009916128</b>	2. Page 1 of <b>3</b>	3. Emergency Response Phone <b>(800) 374-1221</b>	4. Manifest Tracking Number <b>000658617WAS</b>
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5. Generator's Name and Mailing Address <b>CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113</b> Generator's Phone: <b>(508) 400-2967</b>	Generator's Site Address (if different than mailing address) <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740 SEM: 143113</b>
--	---

6. Transporter 1 Company Name <b>GHUET TRUCKING INC</b>	U.S. EPA ID Number <b>MACT00004088</b>
--	---

7. Transporter 2 Company Name <b>REFERENCE &amp; WORRESTER</b>	U.S. EPA ID Number <b>MADE0000034</b>
---	--

8. Designated Facility Name and Site Address <b>HERITAGE ENVIRONMENTAL SERVICES 4970 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9598</b> Facility's Phone: <b>(765) 436-2704</b>	U.S. EPA ID Number <b>IND980503890</b>
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	<b>RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, P, PGIII, (PCB REMEDIATION WASTE), ER6W171</b>	1	DT	3000 <i>31000</i>	K			

14. Special Handling Instructions and Additional Information <b>1. MI 0917901 TW7682310 EARLIEST DATE OF REMOVAL FROM SERVICE PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO <i>CTEX 063499</i> TRUCK NO <i>34</i> FRI-HERITAGE <i>489556418</i></b>	
---	--

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

Generator's/Offor's Printed/Typed Name <b>Roy Wilbur for the City of Bedford</b>	Signature <i>[Signature]</i>	Month Day Year <b>11 16 15</b>
---	---------------------------------	-----------------------------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name <b>Marcel Boissonault</b>	Signature <i>[Signature]</i>	Month Day Year <b>11 16 15</b>
Transporter 2 Printed/Typed Name <b>Daniel St...</b>	Signature <i>[Signature]</i>	Month Day Year <b>11 16 15</b>

18. Discrepancy

18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
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Manifest Reference Number:

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
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Facility's Phone:

18c. Signature of Alternate Facility (or Generator)	Month Day Year
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19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. <b>H132</b>	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name <b>[Signature]</b>	Signature <i>[Signature]</i>	Month Day Year <b>10 17 15</b>
--	---------------------------------	-----------------------------------

GENERATOR  
TRANSPORTER INTL  
TRANSPORTER  
DESIGNATED FACILITY





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894221

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658617WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	31,007
<b>Totals</b>		<b>1</b>	<b>31,007</b>

RAILCAR: CIGX 803499

Jeffrey A. Laborsky, President

AC 151 GONS

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NF5029716198	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650893WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
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6. Transporter 1 Company Name BOULET TRUCKING INC	U.S. EPA ID Number MA030006038
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7. Transporter 2 Company Name BRIDGEVIEW & WORCESTER	U.S. EPA ID Number MA059020834
---	-----------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9579 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503870
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9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 7, PG11, (PCB REMEDIATION WASTE), ERG#171	1	DT	30550 29.506	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. WI 0917901 T97482952 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. CTR 803499 TRUCK NO. 35 ERI: HERITAGE 489557716
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15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generators/Offeror's Printed/Typed Name Ray Albano For the City of New Bedford	Signature <i>[Signature]</i>	Month Day Year 1 16 15
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16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
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17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name MEARNS WORTH	Signature <i>[Signature]</i>	Month Day Year 1 16 15
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Transporter 2 Printed/Typed Name Drew Stone	Signature <i>[Signature]</i>	Month Day Year 1 16 15
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18. Discrepancy	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection	Manifest Reference Number: U.S. EPA ID Number
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18b. Alternate Facility (or Generator)	U.S. EPA ID Number
--	--------------------

18c. Signature of Alternate Facility (or Generator)	Month Day Year
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19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a. Printed/Typed Name <i>[Signature]</i>	Signature <i>[Signature]</i>	Month Day Year 1 01 15
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GENERATOR  
TRANSPORTER  
DESIGNATED FACILITY





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890      **Stop :** 1894242

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650893WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	29,510
<b>Totals</b>		<b>1</b>	<b>29,510</b>

RAILCAR: CIGX 803499

Jeffrey A. Laborsky, President





<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)	21. Generator ID Number <b>NP5089916188</b>	22. Page <b>22</b> of <b>22</b>	23. Manifest Tracking Number <b>000850894WAS</b>
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24. Generator's Name <b>CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113</b>	24. Generator's Name <b>CITY OF NEW BEDFORD 101 &amp; 102 GREENWOOD ST NEW BEDFORD, MA 02740</b>
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25. Transporter <b>3</b> Company Name <b>CSX TRANSPORTATION INC</b>	U.S. EPA ID Number <b>FL0008921340</b>
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26. Transporter <b>4</b> Company Name <b>HERITAGE TRANSPORT, LLC</b>	U.S. EPA ID Number <b>IND058484114</b>
--	---

27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information
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33. Transporter <b>3</b> Acknowledgment of Receipt of Materials Printed/Typed Name	Signature	Month	Day	Year
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34. Transporter <b>4</b> Acknowledgment of Receipt of Materials Printed/Typed Name <i>Tom Stewart</i>	Signature <i>[Signature]</i>	Month <b>1</b>	Day <b>29</b>	Year <b>15</b>
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35. Discrepancy
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36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
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**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890

**Stop :** 1894243

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650894WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 29-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,980
<b>Totals</b>		<b>1</b>	<b>30,980</b>

**RAILCAR:** CIGX 803499

Jeffrey A. Laborsky, President

Please print or type. (Form designed for use on 6-line (12-pitch) typewriter.)

**ACIST GOALS**



Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MP5089716188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000658609WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter 1 Company Name BOULET TRUCKING INC			U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name PROVIDENCE & WORCESTER			U.S. EPA ID Number MAD059020834				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
K	RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 7, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 35,3P3	K		
14. Special Handling Instructions and Additional Information 1. U1 0917901 TR7682294 EARLIEST DATE OF REMOVAL FROM SERVICE 11/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. COAX 31039 TRUCK NO. 43 317 ERI: HERITAGE C4895548JG wt: 21954 kg (48400 lb)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator/Officer's Printed/Typed Name Ray W. Berg...				Signature <i>[Signature]</i>		Month Day Year 11 12 15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: CHRISTIAN NARRIE Signature: <i>[Signature]</i> Month Day Year: 11 12 15 Transporter 2 Printed/Typed Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Month Day Year: 11 12 15							
18. Discrepancy 18a. Discrepancy Indication Specs <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____							
18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____ Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year: _____							
19. Hazardous Waste Report Management Method Codes (I.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Month Day Year: 11 12 15							





Facility : HERITAGE ENVIRONMENTAL SERVICES  
4370 W COUNTY ROAD 1275 N  
ROACHDALE, IN 46172-9593  
(765)435-2704

EPA ID: IND980503890

Stop : 1894213

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
133 WILLIAM ST ROOM 304  
NEW BEDFORD, MA 02740-6113  
UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658609WAS

CITY OF NEW BEDFORD  
101 & 102 GREENWOOD ST  
NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	35,389
		Totals	1 35,389

RAILCAR: CEFX 31039

Jeffrey A. Laborsky, President

AC 41 CONDOCA New Bedford



Form Approved. OMB No. 2050-0038

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NF5059716188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000658610WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name BOULET TRUCKING INC			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name BOUQUENANCE & UNDECESTED			U.S. EPA ID Number MAD050020834			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	RG, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG11, (PCB REMEDIATION WASTE), ERG#171	1	DT	<del>29,995</del> 29,995	K	
14. Special Handling Instructions and Additional Information 1. UN 0917901 TH7482294 EARLIEST DATE OF REMOVAL FROM SERVICE <u>1, 7, 15</u> PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. <u>CEN 31039</u> TRUCK NO. <u>38</u> ERI: HERITAGE [489554916] <u>ad: 236774 (5220016)</u>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 282.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offero's Printed/Typed Name <u>Roy Holmberg to the City of Bedford</u>						Month Day Year <u>1 20 15</u>
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <u>DAVID NEWTON</u> Signature <u>[Signature]</u> Month Day Year <u>1 20 15</u> Transporter 2 Printed/Typed Name <u>[Signature]</u> Signature <u>[Signature]</u> Month Day Year <u>1 20 15</u>						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator) Facility's Phone: _____						U.S. EPA ID Number _____
18c. Signature of Alternate Facility (or Generator) _____						Month Day Year _____
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
	H132					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest, except as noted in Item 18a Printed/Typed Name <u>[Signature]</u>						Month Day Year <u>1 01 20 15</u>





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

**EPA ID:** IND980503890

**Stop :** 1894214

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658610WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,000
<b>Totals</b>		<b>1</b>	<b>30,000</b>

**RAILCAR:** CEFX 31039

**Jeffrey A. Laborsky, President**



A243 New Bedford  
Gondola



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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MPS089916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000650879WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name BOULET TRUCKING INC				U.S. EPA ID Number MAC300006038		
7. Transporter 2 Company Name PROVIDENCE & WORCESTER				U.S. EPA ID Number MAD059020B34		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890		
9a. HM#	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit VL/Vol.	13. Waste Codes
		No.	Type			
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	50000 32,118	K	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. WI 0917901 TH7682324 EARLIEST DATE OF REMOVAL FROM SERVICE 1/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO. CERR31039 TRUCK NO. 39 ERI: HERITAGE C489556336 ch 721995 489406						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) if I am a large quantity generator or (b) if I am a small quantity generator is true.						
Generator's/Offeror's Printed/Typed Name Ken Volberg - the City of New Bedford				Signature <i>[Signature]</i>		Month Day Year 1   20   15
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Patrick Howard				Signature <i>[Signature]</i>		Month Day Year 01   20   15
Transporter 2 Printed/Typed Name Derek Stines				Signature <i>[Signature]</i>		Month Day Year 1   20   15
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 01   30   15





Facility : HERITAGE ENVIRONMENTAL SERVICES  
4370 W COUNTY ROAD 1275 N  
ROACHDALE, IN 46172-9593  
(765)435-2704

EPA ID: IND980503890

Stop : 1894228

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
133 WILLIAM ST ROOM 304  
NEW BEDFORD, MA 02740-6113  
UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Generator Site Address : Gen# : 143113

DOCUMENT : 000650879WAS

CITY OF NEW BEDFORD  
101 & 102 GREENWOOD ST  
NEW BEDFORD, MA 02740

EPA ID NUMBER : MP5089916188

DISPOSAL DATE : 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	32,123
		Totals	1 32,123

RAILCAR: CEFX 31039

Jeffrey A. Laborsky, President

AC43 New Bedford  
Gondola



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number 0000001488	2. Page 1 of 2	3. Emergency Response Phone (800)324-1231	4. Manifest Tracking Number 000658620WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name BOWLETT TRUCKING INC			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name SECURITY & PROTECTIVE			U.S. EPA ID Number MA000000004			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4270 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	RO. UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, P011, (PCB REMEDIATION WASTE), ERG171	1	DF	23,805	K	
14. Special Handling Instructions and Additional Information 1. U.I. 0012901 IN7400316 EARLIEST DATE OF REMOVAL FROM SERVICE 1/17/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAILCAR NO CFEY 31052 TRUCK NO 40 ERI: HERITAGE 14875529 IN w/ 23587 kg (52000 lb)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Ray Wabgon For the City of New Bedford			Signature 		Month Day Year 1/20/15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name CHRISTIAN NOANE			Signature 		Month Day Year 1/20/15	
Transporter 2 Printed/Typed Name David Noane			Signature 		Month Day Year 1/20/15	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year: _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name 			Signature 		Month Day Year 1/21/15	





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
4370 W COUNTY ROAD 1275 N  
ROACHDALE, IN 46172-9593  
(765)435-2704

EPA ID: IND980503890

**Stop :** 1894224

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
133 WILLIAM ST ROOM 304  
NEW BEDFORD, MA 02740-6113  
UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658620WAS

CITY OF NEW BEDFORD  
101 & 102 GREENWOOD ST  
NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process :	Wastestream	# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	33,811
		<b>Totals</b>	<b>1      33,811</b>

RAILCAR: CEFX 31052

Jeffrey A. Laborsky, President

ACIST GONS



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MS0089914188	2. Page 1 of 2	3. Emergency Response Phone (800)324-1221	4. Manifest Tracking Number 000650876NAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
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6. Transporter 1 Company Name SUN ET TRUCKING INC.	U.S. EPA ID Number MA0300016038
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7. Transporter 2 Company Name HERITAGE ENVIRONMENTAL SERVICES	U.S. EPA ID Number MA002020824
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8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1375 N ROACHDALE, IN 46172-9593 Facility's Phone: (745)435-2704	U.S. EPA ID Number IND980503890
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	RD. UN2498, POLYCHLORINATED BIPHENYLS, SOLID, 9. PGIII. (PCB REMEDIATION WASTE), ER09171	1	DT	33478	X			

14. Special Handling Instructions and Additional Information  
 1. WJ 0917901 TW7682318  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 BATT CAR NO. TRUCK NO. 4/1  
 FRI. HERITAGE  
 wt: 21981kg (48460)  
 1489554016

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

Generator's/Offerior's Printed/Typed Name: Roy Halbergson For the City of New Bedford  
 Signature: [Signature]  
 Month: 1 Day: 20 Year: 15

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

17. Transporter Acknowledgment of Receipt of Materials  
 Transporter 1 Printed/Typed Name: DAVID NEWTON  
 Signature: [Signature]  
 Month: 1 Day: 20 Year: 15

Transporter 2 Printed/Typed Name: [Signature]  
 Signature: [Signature]  
 Month: 1 Day: 20 Year: 15

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

18b. Alternate Facility (or Generator)  
 Manifest Reference Number: \_\_\_\_\_  
 U.S. EPA ID Number: \_\_\_\_\_

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

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

1. H132	2.	3.	4.
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20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.  
 Printed/Typed Name: [Signature]  
 Signature: [Signature]  
 Month: 10 Day: 30 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.  
 DESIGNATED FACILITY TO GENERATOR

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b> (Continuation Sheet)		21. Generator ID Number NP5087914188	22. Page of 2	23. Manifest Tracking Number 000650876WAS					
24. Generator's Name CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113		CITY OF NEW BEDFORD 301 & 102 GREENWOOD ST NEW BEDFORD, MA 02740							
25. Transporter <u>3</u> Company Name CSX TRANSPORTATION INC		U.S. EPA ID Number FLD006921340							
26. Transporter <u>4</u> Company Name HERITAGE TRANSPORT, LLC		U.S. EPA ID Number IND058484114							
GENERATOR	27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total	30. Unit	31. Waste Codes		
			No.	Type	Quantity	Wt./Vol.			
32. Special Handling Instructions and Additional Information									
TRANSPORTER	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials								
	Printed/Typed Name				Signature		Month	Day	Year
DESIGNATED FACILITY	34. Transporter <u>4</u> Acknowledgment of Receipt of Materials								
	Printed/Typed Name				Signature		Month	Day	Year
	Jim Cook				Jim Cook		1	30	15
35. Discrepancy									
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894225

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650876WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	33,464
<b>Totals</b>		<b>1</b>	<b>33,484</b>

RAILCAR: CEFX 31052

Jeffrey A. Laborsky, President

AC 41 GONDOLA New

BUSFORD

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MA2509991A198	2. Page 1 of 2	3. Emergency Response Phone (800)324-1221	4. Manifest Tracking Number 000650877WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
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6. Transporter 1 Company Name GDIN ET TRUCKING INC	U.S. EPA ID Number MAC300006038
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7. Transporter 2 Company Name RESIDENCE & RESTAURANT	U.S. EPA ID Number MA2509991A198
---	-------------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-7593 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, P, PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 21500	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information  
 1. M1 0917901 T#7482320  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE 42  
 BALLER NO. 1052 TRUCK NO. FBI HERITAGE 2144615  
 (4728016)

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

Generators/Offeror's Printed/Typed Name Ray Hollinger For the City of New Bedford	Signature 	Month Day Year 1/20/15
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16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
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17. Transporter Acknowledgment of Receipt of Materials	Signature	Month Day Year
Transporter 1 Printed/Typed Name Patrick Howard		01/20/15
Transporter 2 Printed/Typed Name Derek Stuck		1/20/15

18. Discrepancy

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

Manifest Reference Number: \_\_\_\_\_ U.S. EPA ID Number: \_\_\_\_\_

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

Facility's Phone: \_\_\_\_\_

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

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

1. H132 2. 3. 4.

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

Printed/Typed Name \_\_\_\_\_ Signature \_\_\_\_\_ Month Day Year 01/30/15





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894226

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650877WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 30-JAN-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	31,552
<b>Totals</b>		<b>1</b>	<b>31,552</b>

RAILCAR: CEFX 31052

Jeffrey A. Laborsky, President

AC157 GONS



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MPS0899141RR	2. Page 1 of 2	3. Emergency Response Phone (800) 324-1221	4. Manifest Tracking Number 000650878WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-4113 Generator's Phone: (508) 400-2947	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
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6. Transporter 1 Company Name GONN ET TRUCKING INC	U.S. EPA ID Number MAC300006038
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7. Transporter 2 Company Name HERITAGE ENVIRONMENTAL SERVICES	U.S. EPA ID Number IND980503870
--	------------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4970 W COUNTY ROAD 1275 N BUCACHDALE, IN 46172-9593 Facility's Phone: (765) 485-2704	U.S. EPA ID Number IND980503870
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol	13. Waste Codes		
		No.	Type					
X	1. RQ UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERGN171	1	DT	30000 30141	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. M1 0917901 TH7403322 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAIL CAR NO 2226 31910 TRUCK NO 43 (prev 43 was 34) ERT HERITAGE (489556216) al: 246936 (5444016)
--

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

Generator's/Offoror's Printed/Typed Name Ray Heibeger For the City of New Bedford	Signature <i>[Signature]</i>	Month Day Year 11/21/15
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16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month Day Year
Transporter 1 Printed/Typed Name Marcel Boissonnault	Signature Marcel Boissonnault	11/21/15
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
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18b. Alternate Facility (or Generator)	Manifest Reference Number:	U.S. EPA ID Number
--	----------------------------	--------------------

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

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	Signature	Month Day Year
Printed/Typed Name Dan [Name]	Signature <i>[Signature]</i>	12/13/15

GENERATOR

TRANSPORTER

DESIGNATED FACILITY





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890      **Stop :** 1894227

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000650878WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188  
**DISPOSAL DATE :** 13-FEB-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,146
<b>Totals</b>		<b>1</b>	<b>30,146</b>

RAILCAR: CEFX 31910

Jeffrey A. Laborsky, President

AC41 GONDOLA New Bedford



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MA5087916188	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000658595WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 132 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter 1 Company Name BOULET TRUCKING INC				U.S. EPA ID Number MAC320006038			
7. Transporter 2 Company Name EVIDENCE & INVESTIG				U.S. EPA ID Number MA059006834			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 W ROACHDALE, IN 46172-9599 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ER8171	1	DT	3000 33,310	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information I M1 0917901 TN7682266 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE 44 RAILCAR NO. CKE1 310 910 TRUCK NO. 44 ERI: HERITAGE al: 2/9/55/49 (43300/4) 1489853436							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ray Hilgans to City of New Bedford				Signature <i>[Signature]</i>		Month Day Year 1 21 15	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Joseph Signa				Signature <i>[Signature]</i>		Month Day Year 1 21 15	
Transporter 2 Printed/Typed Name Dennis Howard				Signature <i>[Signature]</i>		Month Day Year 1 21 15	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (of Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)				Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. _____		2. _____		3. _____		4. _____	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>		Month Day Year 1 21 15	

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY







**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890      **Stop :** 1894199

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658595WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 13-FEB-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	33,348
<b>Totals</b>		<b>1</b>	<b>33,348</b>

RAILCAR: CEFX 31910

Jeffrey A. Laborsky, President

AC43 New Bedford  
Gondola



Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST  
 1. Generator ID Number: NFE089914188  
 2. Page 1 of 2  
 3. Emergency Response Phone: (800) 324-1221  
 4. Manifest Tracking Number: 000658596WAS

5. Generator's Name and Mailing Address: CITY OF NEW BEDFORD, 193 WILLIAM ST ROOM 304, NEW BEDFORD, MA 02740-6113  
 Generator's Phone: (508) 400-2967  
 Generator's Site Address (if different than mailing address): CITY OF NEW BEDFORD, 101 & 102 GREENWOOD ST, NEW BEDFORD, MA 02740, GEN: 143113

6. Transporter 1 Company Name: SCHLET TRUCKING INC  
 U.S. EPA ID Number: MAC300606038

7. Transporter 2 Company Name: SEQUENCE & UNIFORMITY  
 U.S. EPA ID Number: HAD06220024

8. Designated Facility Name and Site Address: HERITAGE ENVIRONMENTAL SERVICES, 4270 W COUNTY ROAD 1275 N, ROACHDALE, IN 46172-9593  
 Facility's Phone: (765) 1435-2714  
 U.S. EPA ID Number: IND780503870

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
1	RD, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9. PGII, (PCB REMEDIATION WASTE), ERGN171	1	DT	3000 32744	K			
2								
3								
4								

14. Special Handling Instructions and Additional Information:  
 1. IN 0917701 TR7492248  
 EARLIEST DATE OF REMOVAL FROM SERVICE: 7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 RAIL CAR NO. 31910 TRUCK NO. 45  
 ERI HERITAGE (3696010)  
 at 167054

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

Generator's/Officer's Printed/Typed Name: Roy Halberger  
 Signature: [Signature]  
 Month: 1, Day: 21, Year: 15

16. International Shipments:  Import to U.S.  Export from U.S.  
 Port of entry/exit:   
 Date leaving U.S.:   
 Transporter signature (for exports only):   
 Date leaving U.S.:   
 Manifest Reference Number:   
 U.S. EPA ID Number:   
 Facility's Phone:   
 18c. Signature of Alternate Facility (or Generator):   
 Month:   
 Day:   
 Year:   
 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems):  
 1. H102 2. 3. 4.

17. Transporter Acknowledgment of Receipt of Materials  
 Transporter 1 Printed/Typed Name: Jeff Crowell  
 Signature: [Signature]  
 Month: 1, Day: 21, Year: 15  
 Transporter 2 Printed/Typed Name: [Name]  
 Signature: [Signature]  
 Month: 1, Day: 21, Year: 15

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

18b. Alternate Facility (or Generator)  
 Facility's Phone:   
 U.S. EPA ID Number:   
 18c. Signature of Alternate Facility (or Generator):   
 Month:   
 Day:   
 Year:   
 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems):  
 1. H102 2. 3. 4.

20. Designated Facility Owner/Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a  
 Printed/Typed Name: [Name]  
 Signature: [Signature]  
 Month: 10, Day: 13, Year: 15





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894200

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15-U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658596WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 13-FEB-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	32,785
<b>Totals</b>		<b>1</b>	<b>32,785</b>

RAILCAR: CEFX 31910

Jeffrey A. Laborsky, President

ACISI GONS



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MPE009914388	2. Page 1 of 2	3. Emergency Response Phone (800) 324-1221	4. Manifest Tracking Number 000658597WAS
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5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 193 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2947	Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113
--	---

6. Transporter 1 Company Name SUNNY TRUCKING INC	U.S. EPA ID Number MAF300006038
---	------------------------------------

7. Transporter 2 Company Name RECYCLING & WASTE CENTER	U.S. EPA ID Number MA05000834
---	----------------------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765) 435-2203	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9. PGIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 23/16	K			

14. Special Handling Instructions and Additional Information  
 I U1 0917901 147402270  
 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15  
 PRE-PRINTED WEIGHT IS AN ESTIMATE  
 RAIL CAR NO. 604 9587 TRUCK NO. 46  
 FRI. HERITAGE 489553478  
 at: 158426  
 (4154016)

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

Generator's/Offeror's Printed/Typed Name: Ray Halberger for the City of New Bedford Signature: [Signature] Month: 1 Day: 21 Year: 15

16. International Shipments:  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name MARCEL BISSONNET	Signature [Signature]	Month Day Year 1 21 15
Transporter 2 Printed/Typed Name DANIEL STONE	Signature [Signature]	Month Day Year 1 21 15

18. Discrepancy

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

18b. Alternate Facility (or Generator) U.S. EPA ID Number: \_\_\_\_\_  
 Facility's Phone: \_\_\_\_\_

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

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

1. H132	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [Signature] Signature: [Signature] Month: 10 Day: 13 Year: 15





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

**Stop :** 1894201

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000658597WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 13-FEB-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	33,121
Totals		1	33,121

RAILCAR: GACX 9587

Jeffrey A. Laborsky, President



ACT 1000000 Newbedford



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

Form Approved, OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number NPS00001A182	2. Page 1 of 2	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000658598WAS		
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-8113 Generator's Phone: (508)400-2947			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113				
6. Transporter 1 Company Name GONNET TRUCKING INC					U.S. EPA ID Number MAC200004038		
7. Transporter 2 Company Name EQUIPMENT & SERVICES					U.S. EPA ID Number MA000000004		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 N COUNTY ROAD 1275 N ROACHDALE, IN 46172-9579 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	RD. UN2482, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), ERGN173	1	DT	30000 31792	K		
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1. HI 0917901 TN7682272 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/2015 PRE-PRINTED WEIGHT IS AN ESTIMATE RAIL CAR NO 2067 2527 TRUCK NO 417 ERI HERITAGE 1489583710 at: 167016 (3682018)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Ray Halberger for the City of New Bedford					Signature [Signature]		
Month Day Year 1 2 15							
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Joseph Sigm			Signature [Signature]		Month Day Year 1 31 15		
Transporter 2 Printed/Typed Name Derek St...			Signature [Signature]		Month Day Year 1 21 15		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name [Signature]					Signature [Signature]		
Month Day Year 1 2 13 15							





**Facility :** HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704  
 EPA ID: IND980503890      **Stop :** 1894202

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**DOCUMENT :** 000658598WAS  
**EPA ID NUMBER :** MP5089916188  
**DISPOSAL DATE :** 13-FEB-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	30,037
<b>Totals</b>		<b>1</b>	<b>30,037</b>

RAILCAR: GACX 9587

Jeffrey A. Laborsky, President

AC 43 New Bedford  
Gondola



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

Form Approved: OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 025089916188	2. Page 1 of 2	3. Emergency Response Phone (800) 324-1221	4. Manifest Tracking Number 000658599WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508) 400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name GIBLET TRUCKING INC					U.S. EPA ID Number MAC300006038	
7. Transporter 2 Company Name BRIDGEWATER & HOPKINSTER					U.S. EPA ID Number MA059020834	
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765) 495-8704					U.S. EPA ID Number IND980503690	
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	RG, UN3482, POLYCHLORINATED BIPHENYLS, SOLID, 7, PBIII, (PCB REMEDIATION WASTE), ERG#171	1	DT	30000 31728	K	
14. Special Handling Instructions and Additional Information I W1 0917901 TW7682274 EARLIEST DATE OF REMOVAL FROM SERVICE 1/7/15 PRE-PRINTED WEIGHT IS AN ESTIMATE RAIL CAR NO 6622507 TRUCK NO 48 FRT HERITAGE 1489553818 ad: 21754 (479606)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Roy H. Bergeron - the City of New Bedford			Signature <i>[Signature]</i>		Month Day Year 11/2/15	
16. International Shipments: <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Jeff Crowell			Signature <i>[Signature]</i>		Month Day Year 1/21/15	
Transporter 2 Printed/Typed Name Dennis...			Signature <i>[Signature]</i>		Month Day Year 1/21/15	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
	H132					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 1/21/15	





Facility : HERITAGE ENVIRONMENTAL SERVICES  
4370 W COUNTY ROAD 1275 N  
ROACHDALE, IN 46172-9593

(765)435-2704

EPA ID: IND980503890

Stop : 1894203

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
133 WILLIAM ST ROOM 304  
NEW BEDFORD, MA 02740-6113  
UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

CITY OF NEW BEDFORD  
101 & 102 GREENWOOD ST  
NEW BEDFORD, MA 02740

**DOCUMENT :** 000658599WAS  
**EPA ID NUMBER :** MP5089916188  
**DISPOSAL DATE :** 13-FEB-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	31,733
<b>Totals</b>		<b>1</b>	<b>31,733</b>

RAILCAR: GACX 9587

Jeffrey A. Laborsky, President

US 187



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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number MP5089916188	2. Page 1 of 1	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000665696WAS			
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. RO, UN3492, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), (RQ = 1 LB), ERGELI	1	DT	<del>20000</del> 20,575	K		
		2.			BW 4-3-15			
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. U1 0917901 TW7882069 EARLIEST DATE OF REMOVAL FROM SERVICE 04/02/2015 PRE-PRINTED WEIGHT IS AN ESTIMATE TRUCK NO. <span style="float: right;">WT 45,360 lbs 20,575 kg</span> ERI: HERITAGE [5039914]B								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ray Holberger						Signature 		Month Day Year 4   2   15
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Matthew R Snipe			Signature Matthew R Snipe		Month Day Year 4   2   15		
Transporter 2 Printed/Typed Name			Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Discrepancy resolved per Ray Holberger BW 4-3-15 Manifest Reference Number:							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:				18c. Signature of Alternate Facility (or Generator)			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Brian Williams				Signature Brian Williams		Month Day Year 4   3   15		



Facility : HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

Stop : 1918634

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000665696WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 03-APR-15

Disposal Process : Wastestream		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	20,575
Totals		1	20,575

Jeffrey A. Laborsky, President





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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number HFE089916188	2. Page 1 of 1	3. Emergency Response Phone (800)326-1221	4. Manifest Tracking Number 000665695WAS	
5. Generator's Name and Mailing Address CITY OF NEW BEDFORD 133 WILLIAM ST ROOM 304 NEW BEDFORD, MA 02740-6113 Generator's Phone: (508)400-2967			Generator's Site Address (if different than mailing address) CITY OF NEW BEDFORD 101 & 102 GREENWOOD ST NEW BEDFORD, MA 02740 GEN: 143113			
6. Transporter 1 Company Name U. S. BULK TRANSPORT, INC			U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES 4370 W COUNTY ROAD 1275 N ROACHDALE, IN 46172-9593 Facility's Phone: (765)435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RQ: UNS452, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE), (RQ = 1 LB), ERG#171	1	DT	<del>30000</del> 21174	K	
	2.			@ 040615		
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. M1 Q917701 TN7082067 EARLIEST DATE OF REMOVAL FROM SERVICE 4/2/15 PRE-PRINTED WEIGHT IS AN ESTIMATE TRUCK NO. 2 ERI: HERITAGE al: 21174K (4668016) E5039913J6						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Ray Halberger For the City of New Bedford			Signature 		Month Day Year 4   2   15	
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name William J Schaffner			Signature 		Month Day Year 4   2   15	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Discrepancy resolved per Ray Halberger @ 040615 Manifest Reference Number: _____ U.S. EPA ID Number _____						
18b. Alternate Facility (of Generator) U.S. EPA ID Number _____						
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H13E		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Dan Barua			Signature 		Month Day Year 4   2   15	



Facility : HERITAGE ENVIRONMENTAL SERVICES  
 4370 W COUNTY ROAD 1275 N  
 ROACHDALE, IN 46172-9593  
 (765)435-2704

EPA ID: IND980503890

Stop : 1918633

**Generator Mailing Address :**

CITY OF NEW BEDFORD  
 133 WILLIAM ST ROOM 304  
 NEW BEDFORD, MA 02740-6113  
 UNITED STATES

## Certificate of Disposal for PCB Waste

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S.C. 1001 and 15 U.S.C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE, AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

**Generator Site Address :**      **Gen# :** 143113

**DOCUMENT :** 000665695WAS

CITY OF NEW BEDFORD  
 101 & 102 GREENWOOD ST  
 NEW BEDFORD, MA 02740

**EPA ID NUMBER :** MP5089916188

**DISPOSAL DATE :** 06-APR-15

Disposal Process : Wastestream

		# Containers	Total Kilograms
LANDFILLED	1 PCB REMEDIATION WASTE SOIL	1	21,174
<b>Totals</b>		<b>1</b>	<b>21,174</b>

Jeffrey A. Laborsky, President



**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.

Street	Location aid	
<u>New Bedford</u>	<u>MA</u>	<u>02740</u>
City/Town	State	Zip code
	<u>January 2015</u>	
2. Date/Period of generation: <u>November 2014</u>	To	
From		

3. U.S. EPA ID number: \_\_\_\_\_ 4. 21E release:  Yes  No

5. List additional tracking documents associated with this document:  
See Attached

**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.

**B. Generator Information**

1. Provide the following generator information:

<u>City of New Bedford</u>	
Name of organization	
<u>Michele Paul</u>	<u>Director - Office of Environmental Stewardship</u>
Contact name	Title
<u>133 Williams Street</u>	<u>New Bedford</u>
Street address	City/Town
<u>MA</u>	<u>02740</u>
State	Zip code
	<u>508-991-6188</u>
	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  
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

**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)

Licensing state (if applicable)

Ron Labelle / Zeb Arruda  
Contact person

Commissioner / Deputy Commissioner  
Title

1105 Shawmut Avenue  
Street

City of New Bedford  
City/Town

MA  
State

02740  
Zip code

508-979-1550  
Telephone number

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

Exec. Director / Operations Manager  
Title

300 Samuel Barnet Blvd.  
Street

New Bedford  
City/Town

MA  
State

02745  
Zip code

508-763-5924  
Telephone number

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



# 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

## F. Description of Material

Check all that apply:

1. a.  soil     dredge material     fill  
       b. Description:    Vegetation organic/woody debris  
       c. Classification:     MIT     USDA     USAEC     ASEE
2.  Other(describe):    Vegetation organic/woody debris
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 checked="" type="checkbox"/> As	<input type="checkbox"/> HVOCs
<input checked="" type="checkbox"/> Cd	<input type="checkbox"/> PATH
<input checked="" type="checkbox"/> Cr	<input type="checkbox"/> VOCs
<input checked="" type="checkbox"/> Pb	<input type="checkbox"/> PAHs
<input checked="" 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 type="checkbox"/> VOCs
<input checked="" type="checkbox"/> Cr	<input 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:
 

\_\_\_\_\_

Type

\_\_\_\_\_

Instrument used

\_\_\_\_\_

Constituents

\_\_\_\_\_



# 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

## F. Description of Material (cont.)

7. Estimated volume of materials:

150-200

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

3/23/15

Date

1488

License number

Seal:





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

### 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."

*M. Paul*

Signature

3/23

Date

MICHAEL PAUL AS AGENT FOR  
Name(print) CITY OF NEW BEDFORD

### I. Acknowledgment of Receipt by Receiving Facility

*Clapp Hill*

Receiving facility

*Richard*

Representative (print)

Title

*[Signature]*

Signature

3-24-15

Date



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention

# Material Shipping Record & Log

4-15685  
Tracking Number

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

## J. Load Information

**Note:**  
Make additional copies of this page as necessary.

Load#: 1  
Signature of transporter Ciro Angelini  
Date received 3-24-15 Time received 9:24  
Truck/Tractor registration M75881

Load size (cubic yards/tons) 4.91

Load#: 2  
Signature of transporter Ciro Angelini  
Date received 3-24-15 Time received 10:17  
Truck/Tractor registration M75881

Load size (cubic yards/tons) 4.73 Tons

Load#: 3  
Signature of transporter Ciro Angelini  
Date received 3/24/15 Time received 11:14  
Truck/Tractor registration M75881

Load size (cubic yards/tons) 2.61

Receiving facility CHL  
Date of shipment 3-24-15 Time of shipment 8:30  
Trailer registration

Rm

Receiving facility Crop Hill  
Date of shipment 3/24/15 Time of shipment 9:00 AM  
Trailer registration

Rm

Receiving facility Crop Hill  
Date of shipment 3/24/15 Time of shipment 10:30  
Trailer registration

Rm

## 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)

Page \_\_\_\_\_ of \_\_\_\_\_





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

## J. Load Information

**Note:**  
Make additional copies of this page as necessary.

Load#: 4  
Signature of transporter Ciro Donzellini  
Date received 3-24-15 Time received 1:14  
Truck/Tractor registration M 75881  
Load size (cubic yards/tons) 3.77

Receiving facility Crope Hill  
Date of shipment 3/24/15 Time of shipment 12:45  
Trailer registration RM

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) \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

**APPENDIX C**  
**LABORATORY REPORTS**

November 17, 2014

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

Project Location: Greenwood St., New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 14K0420

Enclosed are results of analyses for samples received by the laboratory on November 10, 2014. 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: David Sullivan

REPORT DATE: 11/17/2014

PURCHASE ORDER NUMBER: 74486

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14K0420

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

PROJECT LOCATION: Greenwood St., New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CTP-102-7-N (0-3ft)	14K0420-01	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-102-7-E (0-3ft)	14K0420-02	Soil		SM 2540G SW-846 1311 SW-846 6010C	
2PEX-6 (1-3ft)	14K0420-03	Soil		SM 2540G SW-846 8082A	
CTP-102-7-S (0-3ft)	14K0420-04	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-102-7-W (0-3ft)	14K0420-05	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-S (0-4ft)	14K0420-06	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-S (4-8ft)	14K0420-07	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-N (0-4ft)	14K0420-08	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-N (4-8ft)	14K0420-09	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-W (0-4ft)	14K0420-10	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-W (4-8ft)	14K0420-11	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-E (0-4ft)	14K0420-12	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-E (4-8ft)	14K0420-13	Soil		SM 2540G SW-846 1311 SW-846 6010C	
DUP-1	14K0420-14	Soil		SM 2540G SW-846 8082A	

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: 11/17/2014

PURCHASE ORDER NUMBER: 74486

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14K0420

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

PROJECT LOCATION: Greenwood St., New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DUP-2	14K0420-15	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-1015A-E1 (0-4ft)	14K0420-16	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-1015A-E1 (4-8ft)	14K0420-17	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-1015A-N1-W (0-4ft)	14K0420-18	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-N1-E (0-4ft)	14K0420-19	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-5A-N1-W (4-8ft)	14K0420-20	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-1015A-N1-E (4-8ft)	14K0420-21	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-E (0-4ft)	14K0420-22	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-E (4-8ft)	14K0420-23	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-N (0-4ft)	14K0420-24	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-N (4-8ft)	14K0420-25	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-S (0-4ft)	14K0420-26	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-S (4-8ft)	14K0420-27	Soil		SM 2540G SW-846 1311 SW-846 6010C	

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: 11/17/2014

PURCHASE ORDER NUMBER: 74486

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14K0420

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

PROJECT LOCATION: Greenwood St., New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CTP-101-4A/5C-W (0-4ft)	14K0420-28	Soil		SM 2540G	
				SW-846 1311	
				SW-846 6010C	
CTP-101-4A/5C-W (4-8ft)	14K0420-29	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.

For method 6010, only Cd and Pb were requested and reported.

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

**SW-846 6010C****Qualifications:****B**

Analyte is found in the associated blank as well as in the sample.

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

14K0420-01[CTP-102-7-N (0-3ft)], 14K0420-02[CTP-102-7-E (0-3ft)], 14K0420-04[CTP-102-7-S (0-3ft)], 14K0420-05[CTP-102-7- W (0-3ft)], 14K0420-06[CTP-101-5A-S (0-4ft)], 14K0420-07[CTP-101-5A-S (4-8ft)], 14K0420-08[CTP-101-5A-N (0-4ft)], 14K0420-09[CTP-101-5A-N (4-8ft)], 14K0420-10[CTP-101-5A- W (0-4ft)], 14K0420-11[CTP-101-5A-W (4-8ft)], 14K0420-12[CTP-101-5A-E (0-4ft)], 14K0420-13[CTP-101-5A-E (4-8ft)], 14K0420-15[DUP-2], 14K0420-16[CTP-1015A-E1 (0-4ft)], 14K0420-17[CTP-1015A-E1 (4-8ft)], 14K0420-18[CTP-1015A-N1- W (0-4ft)], 14K0420-19[CTP-101-5A-N1-E (0-4ft)], 14K0420-20[CTP-101-5A-N1- W (4-8ft)], 14K0420-21[CTP-1015A-N1-E (4-8ft)], B109518-BS1, B109518-BSD1, B109518-MS1

**B-07**

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

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

14K0420-01[CTP-102-7-N (0-3ft)], 14K0420-02[CTP-102-7-E (0-3ft)], 14K0420-04[CTP-102-7-S (0-3ft)], 14K0420-05[CTP-102-7- W (0-3ft)], 14K0420-06[CTP-101-5A-S (0-4ft)], 14K0420-07[CTP-101-5A-S (4-8ft)], 14K0420-08[CTP-101-5A-N (0-4ft)], 14K0420-09[CTP-101-5A-N (4-8ft)], 14K0420-10[CTP-101-5A- W (0-4ft)], 14K0420-11[CTP-101-5A-W (4-8ft)], 14K0420-12[CTP-101-5A-E (0-4ft)], 14K0420-13[CTP-101-5A-E (4-8ft)], 14K0420-15[DUP-2], 14K0420-16[CTP-1015A-E1 (0-4ft)], 14K0420-17[CTP-1015A-E1 (4-8ft)], 14K0420-18[CTP-1015A-N1- W (0-4ft)], 14K0420-19[CTP-101-5A-N1-E (0-4ft)], 14K0420-20[CTP-101-5A-N1- W (4-8ft)], 14K0420-21[CTP-1015A-N1-E (4-8ft)], B109518-BLK1

**SW-846 8082A****Qualifications:****S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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

14K0420-03RE1[2PEX-6 (1-3ft)], 14K0420-14RE1[DUP-1]

**Decachlorobiphenyl [2C]**

14K0420-03RE1[2PEX-6 (1-3ft)], 14K0420-14RE1[DUP-1]

**Tetrachloro-m-xylene**

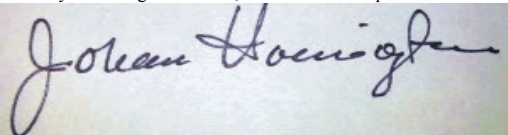
14K0420-03RE1[2PEX-6 (1-3ft)], 14K0420-14RE1[DUP-1]

**Tetrachloro-m-xylene [2C]**

14K0420-03RE1[2PEX-6 (1-3ft)], 14K0420-14RE1[DUP-1]

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: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-N (0-3ft)

Sampled: 11/7/2014 10:00

Sample ID: 14K0420-01

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	82.7		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-N (0-3ft)

Sampled: 11/7/2014 10:00

Sample ID: 14K0420-01

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.86	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 16:18	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-E (0-3ft)

Sampled: 11/7/2014 10:30

Sample ID: 14K0420-02

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	89.7		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-E (0-3ft)

Sampled: 11/7/2014 10:30

Sample ID: 14K0420-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.29	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 16:24	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: 2PEX-6 (1-3ft)

Sampled: 11/7/2014 10:55

Sample ID: 14K0420-03

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	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1221 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1232 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1242 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1248 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1254 [2]	56	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1260 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1262 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Aroclor-1268 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:36	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			11/15/14 20:36	
Decachlorobiphenyl [2]		*	30-150		S-01			11/15/14 20:36	
Tetrachloro-m-xylene [1]		*	30-150		S-01			11/15/14 20:36	
Tetrachloro-m-xylene [2]		*	30-150		S-01			11/15/14 20:36	

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: 2PEX-6 (1-3ft)

Sampled: 11/7/2014 10:55

Sample ID: 14K0420-03

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	83.8		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-S (0-3ft)

Sampled: 11/7/2014 11:10

Sample ID: 14K0420-04

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	80.3		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-S (0-3ft)

Sampled: 11/7/2014 11:10

Sample ID: 14K0420-04

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.2	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 16:30	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-W (0-3ft)

Sampled: 11/7/2014 11:25

Sample ID: 14K0420-05

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	85.2		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-102-7-W (0-3ft)

Sampled: 11/7/2014 11:25

Sample ID: 14K0420-05

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.1	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 16:50	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-S (0-4ft)

Sampled: 11/7/2014 12:30

Sample ID: 14K0420-06

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	81.2		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-S (0-4ft)

Sampled: 11/7/2014 12:30

Sample ID: 14K0420-06

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.013	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 16:56	OP
Lead	0.98	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 16:56	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-S (4-8ft)

Sampled: 11/7/2014 12:45

Sample ID: 14K0420-07

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	81.5		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-S (4-8ft)

Sampled: 11/7/2014 12:45

Sample ID: 14K0420-07

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.36	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:02	OP
Lead	5.7	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:02	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N (0-4ft)

Sampled: 11/7/2014 13:35

Sample ID: 14K0420-08

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	81.9		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N (0-4ft)

Sampled: 11/7/2014 13:35

Sample ID: 14K0420-08

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.012	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:07	OP
Lead	0.73	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:07	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N (4-8ft)

Sampled: 11/7/2014 13:50

Sample ID: 14K0420-09

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	72.2		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N (4-8ft)

Sampled: 11/7/2014 13:50

Sample ID: 14K0420-09

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.90	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:13	OP
Lead	4.2	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:13	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-W (0-4ft)

Sampled: 11/7/2014 14:00

Sample ID: 14K0420-10

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	84.4		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-W (0-4ft)

Sampled: 11/7/2014 14:00

Sample ID: 14K0420-10

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.017	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:19	OP
Lead	0.80	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:19	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-W (4-8ft)

Sampled: 11/7/2014 14:25

Sample ID: 14K0420-11

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	75.4		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-W (4-8ft)

Sampled: 11/7/2014 14:25

Sample ID: 14K0420-11

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.15	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:24	OP
Lead	0.95	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:24	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-E (0-4ft)

Sampled: 11/7/2014 14:50

Sample ID: 14K0420-12

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	71.3		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-E (0-4ft)

Sampled: 11/7/2014 14:50

Sample ID: 14K0420-12

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.064	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:30	OP
Lead	1.3	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:30	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-E (4-8ft)

Sampled: 11/7/2014 15:10

Sample ID: 14K0420-13

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	78.3		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-E (4-8ft)

Sampled: 11/7/2014 15:10

Sample ID: 14K0420-13

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.68	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:35	OP
Lead	2.4	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:35	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: DUP-1

Sampled: 11/7/2014 00:00

Sample ID: 14K0420-14

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	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1221 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1232 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1242 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1248 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1254 [2]	57	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1260 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1262 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Aroclor-1268 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	11/14/14	11/15/14 20:48	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			11/15/14 20:48	
Decachlorobiphenyl [2]		*	30-150		S-01			11/15/14 20:48	
Tetrachloro-m-xylene [1]		*	30-150		S-01			11/15/14 20:48	
Tetrachloro-m-xylene [2]		*	30-150		S-01			11/15/14 20:48	

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: DUP-1

Sampled: 11/7/2014 00:00

Sample ID: 14K0420-14

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	84.6		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Sampled: 11/7/2014 00:00

Field Sample #: DUP-2

Sample ID: 14K0420-15

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	62.4		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Sampled: 11/7/2014 00:00

Field Sample #: DUP-2

Sample ID: 14K0420-15

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.21	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 17:41	OP
Lead	1.3	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 17:41	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-E1 (0-4ft)

Sampled: 11/10/2014 08:30

Sample ID: 14K0420-16

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	89.4		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-E1 (0-4ft)

Sampled: 11/10/2014 08:30

Sample ID: 14K0420-16

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.039	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 18:02	OP
Lead	1.9	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 18:02	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-E1 (4-8ft)

Sampled: 11/10/2014 08:45

Sample ID: 14K0420-17

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	86.2		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-E1 (4-8ft)

Sampled: 11/10/2014 08:45

Sample ID: 14K0420-17

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.11	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 18:08	OP
Lead	3.0	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 18:08	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-N1-W (0-4ft)

Sampled: 11/10/2014 09:15

Sample ID: 14K0420-18

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	80.5		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-N1-W (0-4ft)

Sampled: 11/10/2014 09:15

Sample ID: 14K0420-18

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.011	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 18:13	OP
Lead	0.50	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 18:13	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N1-E (0-4ft)

Sampled: 11/10/2014 09:20

Sample ID: 14K0420-19

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	78.1		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N1-E (0-4ft)

Sampled: 11/10/2014 09:20

Sample ID: 14K0420-19

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0099	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 18:19	OP
Lead	0.34	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 18:19	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N1-W (4-8ft)

Sampled: 11/10/2014 09:30

Sample ID: 14K0420-20

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	75.5		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-5A-N1-W (4-8ft)

Sampled: 11/10/2014 09:30

Sample ID: 14K0420-20

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.027	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 18:24	OP
Lead	1.8	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 18:24	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-N1-E (4-8ft)

Sampled: 11/10/2014 09:40

Sample ID: 14K0420-21

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	69.8		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-1015A-N1-E (4-8ft)

Sampled: 11/10/2014 09:40

Sample ID: 14K0420-21

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.039	0.0040	mg/L	1		SW-846 6010C	11/12/14	11/12/14 18:30	OP
Lead	0.80	0.010	mg/L	1	B-07, B	SW-846 6010C	11/12/14	11/12/14 18:30	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-E (0-4ft)

Sampled: 11/10/2014 10:00

Sample ID: 14K0420-22

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	84.6		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-E (0-4ft)

Sampled: 11/10/2014 10:00

Sample ID: 14K0420-22

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.2	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 14:33	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-E (4-8ft)

Sampled: 11/10/2014 10:15

Sample ID: 14K0420-23

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	82.8		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-E (4-8ft)

Sampled: 11/10/2014 10:15

Sample ID: 14K0420-23

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.5	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 14:39	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-N (0-4ft)

Sampled: 11/10/2014 10:30

Sample ID: 14K0420-24

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	80.0		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-N (0-4ft)

Sampled: 11/10/2014 10:30

Sample ID: 14K0420-24

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.6	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 14:44	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-N (4-8ft)

Sampled: 11/10/2014 10:45

Sample ID: 14K0420-25

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	81.1		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-N (4-8ft)

Sampled: 11/10/2014 10:45

Sample ID: 14K0420-25

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.1	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 15:10	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-S (0-4ft)

Sampled: 11/10/2014 11:00

Sample ID: 14K0420-26

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	81.5		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-S (0-4ft)

Sampled: 11/10/2014 11:00

Sample ID: 14K0420-26

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.9	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 15:16	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-S (4-8ft)

Sampled: 11/10/2014 11:15

Sample ID: 14K0420-27

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	76.5		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-S (4-8ft)

Sampled: 11/10/2014 11:15

Sample ID: 14K0420-27

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	4.4	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 15:21	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-W (0-4ft)

Sampled: 11/10/2014 11:40

Sample ID: 14K0420-28

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	87.0		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-W (0-4ft)

Sampled: 11/10/2014 11:40

Sample ID: 14K0420-28

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.4	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 15:27	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-W (4-8ft)

Sampled: 11/10/2014 11:45

Sample ID: 14K0420-29

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	74.1		% Wt	1		SM 2540G	11/11/14	11/11/14 16:16	MXG

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0420

Date Received: 11/10/2014

Field Sample #: CTP-101-4A/5C-W (4-8ft)

Sampled: 11/10/2014 11:45

Sample ID: 14K0420-29

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	2.5	0.010	mg/L	1		SW-846 6010C	11/13/14	11/14/14 15:33	OP

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14K0420-01 [CTP-102-7-N (0-3ft)]	B109391	11/11/14
14K0420-02 [CTP-102-7-E (0-3ft)]	B109391	11/11/14
14K0420-03 [2PEX-6 (1-3ft)]	B109391	11/11/14
14K0420-04 [CTP-102-7-S (0-3ft)]	B109391	11/11/14
14K0420-05 [CTP-102-7-W (0-3ft)]	B109391	11/11/14
14K0420-06 [CTP-101-5A-S (0-4ft)]	B109391	11/11/14
14K0420-07 [CTP-101-5A-S (4-8ft)]	B109391	11/11/14
14K0420-08 [CTP-101-5A-N (0-4ft)]	B109391	11/11/14
14K0420-09 [CTP-101-5A-N (4-8ft)]	B109391	11/11/14
14K0420-10 [CTP-101-5A-W (0-4ft)]	B109391	11/11/14
14K0420-11 [CTP-101-5A-W (4-8ft)]	B109391	11/11/14
14K0420-12 [CTP-101-5A-E (0-4ft)]	B109391	11/11/14
14K0420-13 [CTP-101-5A-E (4-8ft)]	B109391	11/11/14
14K0420-14 [DUP-1]	B109391	11/11/14
14K0420-15 [DUP-2]	B109391	11/11/14
14K0420-16 [CTP-1015A-E1 (0-4ft)]	B109391	11/11/14
14K0420-17 [CTP-1015A-E1 (4-8ft)]	B109391	11/11/14
14K0420-18 [CTP-1015A-N1-W (0-4ft)]	B109391	11/11/14
14K0420-19 [CTP-101-5A-N1-E (0-4ft)]	B109391	11/11/14
14K0420-20 [CTP-101-5A-N1-W (4-8ft)]	B109391	11/11/14
14K0420-21 [CTP-1015A-N1-E (4-8ft)]	B109391	11/11/14
14K0420-22 [CTP-101-4A/5C-E (0-4ft)]	B109391	11/11/14
14K0420-23 [CTP-101-4A/5C-E (4-8ft)]	B109391	11/11/14
14K0420-24 [CTP-101-4A/5C-N (0-4ft)]	B109391	11/11/14
14K0420-25 [CTP-101-4A/5C-N (4-8ft)]	B109391	11/11/14
14K0420-26 [CTP-101-4A/5C-S (0-4ft)]	B109391	11/11/14
14K0420-27 [CTP-101-4A/5C-S (4-8ft)]	B109391	11/11/14
14K0420-28 [CTP-101-4A/5C-W (0-4ft)]	B109391	11/11/14
14K0420-29 [CTP-101-4A/5C-W (4-8ft)]	B109391	11/11/14

**Prep Method: SW-846 3010A-SW-846 6010C**

**Leachates were extracted on 11/11/2014 per SW-846 1311 in Batch B109387**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14K0420-01 [CTP-102-7-N (0-3ft)]	B109518	50.0	50.0	11/12/14
14K0420-02 [CTP-102-7-E (0-3ft)]	B109518	50.0	50.0	11/12/14
14K0420-04 [CTP-102-7-S (0-3ft)]	B109518	50.0	50.0	11/12/14
14K0420-05 [CTP-102-7-W (0-3ft)]	B109518	50.0	50.0	11/12/14
14K0420-06 [CTP-101-5A-S (0-4ft)]	B109518	50.0	50.0	11/12/14
14K0420-07 [CTP-101-5A-S (4-8ft)]	B109518	50.0	50.0	11/12/14
14K0420-08 [CTP-101-5A-N (0-4ft)]	B109518	50.0	50.0	11/12/14
14K0420-09 [CTP-101-5A-N (4-8ft)]	B109518	50.0	50.0	11/12/14
14K0420-10 [CTP-101-5A-W (0-4ft)]	B109518	50.0	50.0	11/12/14
14K0420-11 [CTP-101-5A-W (4-8ft)]	B109518	50.0	50.0	11/12/14
14K0420-12 [CTP-101-5A-E (0-4ft)]	B109518	50.0	50.0	11/12/14
14K0420-13 [CTP-101-5A-E (4-8ft)]	B109518	50.0	50.0	11/12/14
14K0420-15 [DUP-2]	B109518	50.0	50.0	11/12/14
14K0420-16 [CTP-1015A-E1 (0-4ft)]	B109518	50.0	50.0	11/12/14
14K0420-17 [CTP-1015A-E1 (4-8ft)]	B109518	50.0	50.0	11/12/14
14K0420-18 [CTP-1015A-N1-W (0-4ft)]	B109518	50.0	50.0	11/12/14
14K0420-19 [CTP-101-5A-N1-E (0-4ft)]	B109518	50.0	50.0	11/12/14
14K0420-20 [CTP-101-5A-N1-W (4-8ft)]	B109518	50.0	50.0	11/12/14
14K0420-21 [CTP-1015A-N1-E (4-8ft)]	B109518	50.0	50.0	11/12/14

**Sample Extraction Data**

**Prep Method: SW-846 3010A-SW-846 6010C**

**Leachates were extracted on 11/12/2014 per SW-846 1311 in Batch B109503**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14K0420-22 [CTP-101-4A/5C-E (0-4ft)]	B109632	50.0	50.0	11/13/14
14K0420-23 [CTP-101-4A/5C-E (4-8ft)]	B109632	50.0	50.0	11/13/14
14K0420-24 [CTP-101-4A/5C-N (0-4ft)]	B109632	50.0	50.0	11/13/14
14K0420-25 [CTP-101-4A/5C-N (4-8ft)]	B109632	50.0	50.0	11/13/14
14K0420-26 [CTP-101-4A/5C-S (0-4ft)]	B109632	50.0	50.0	11/13/14
14K0420-27 [CTP-101-4A/5C-S (4-8ft)]	B109632	50.0	50.0	11/13/14
14K0420-28 [CTP-101-4A/5C-W (0-4ft)]	B109632	50.0	50.0	11/13/14
14K0420-29 [CTP-101-4A/5C-W (4-8ft)]	B109632	50.0	50.0	11/13/14

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14K0420-03RE1 [2PEX-6 (1-3ft)]	B109783	10.1	10.0	11/14/14
14K0420-14RE1 [DUP-1]	B109783	10.0	10.0	11/14/14

**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
<b>Batch B109783 - SW-846 3540C</b>										
<b>Blank (B109783-BLK1)</b>										
Prepared: 11/14/14 Analyzed: 11/15/14										
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	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.160		mg/Kg wet	0.200		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		84.9	30-150			
<b>LCS (B109783-BS1)</b>										
Prepared: 11/14/14 Analyzed: 11/15/14										
Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		91.7	40-140			
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		84.9	40-140			
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		86.7	40-140			
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		84.1	40-140			
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg wet	0.200		92.4	30-150			
<b>LCS Dup (B109783-BSD1)</b>										
Prepared: 11/14/14 Analyzed: 11/15/14										
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		99.7	40-140	8.36	30	
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		93.5	40-140	9.63	30	
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		94.4	40-140	8.45	30	
Aroclor-1260 [2C]	0.18	0.10	mg/Kg wet	0.200		90.9	40-140	7.83	30	
Surrogate: Decachlorobiphenyl	0.192		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.0	30-150			

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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
<b>Batch B109391 - % Solids</b>										
<b>Duplicate (B109391-DUP1)</b>	<b>Source: 14K0420-01</b>		Prepared & Analyzed: 11/11/14							
% Solids	85.0		% Wt		82.7			2.74	20	
<b>Duplicate (B109391-DUP2)</b>	<b>Source: 14K0420-05</b>		Prepared & Analyzed: 11/11/14							
% Solids	83.8		% Wt		85.2			1.66	20	
<b>Duplicate (B109391-DUP3)</b>	<b>Source: 14K0420-20</b>		Prepared & Analyzed: 11/11/14							
% Solids	72.8		% Wt		75.5			3.64	20	
<b>Duplicate (B109391-DUP4)</b>	<b>Source: 14K0420-29</b>		Prepared & Analyzed: 11/11/14							
% Solids	75.4		% Wt		74.1			1.74	20	



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**QUALITY CONTROL**

**TCLP - Metals Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B109518 - SW-846 3010A</b>										
<b>Blank (B109518-BLK1)</b>				Prepared & Analyzed: 11/12/14						
Cadmium	ND	0.0040	mg/L							
Lead	0.013	0.010	mg/L							B-07
<b>LCS (B109518-BS1)</b>				Prepared & Analyzed: 11/12/14						
Cadmium	0.521	0.0040	mg/L	0.500		104	80-120			
Lead	0.458	0.010	mg/L	0.500		91.7	80-120			B
<b>LCS Dup (B109518-BSD1)</b>				Prepared & Analyzed: 11/12/14						
Cadmium	0.535	0.0040	mg/L	0.500		107	80-120	2.50	20	
Lead	0.471	0.010	mg/L	0.500		94.1	80-120	2.61	20	B
<b>Matrix Spike (B109518-MS1)</b>		<b>Source: 14K0420-01</b>		Prepared & Analyzed: 11/12/14						
Cadmium	0.564	0.0040	mg/L	0.500	0.0289	107	75-125			
Lead	1.32	0.010	mg/L	0.500	0.860	92.1	75-125			B
<b>Batch B109632 - SW-846 3010A</b>										
<b>Blank (B109632-BLK1)</b>				Prepared: 11/13/14 Analyzed: 11/14/14						
Lead	ND	0.010	mg/L							
<b>LCS (B109632-BS1)</b>				Prepared: 11/13/14 Analyzed: 11/14/14						
Lead	0.436	0.010	mg/L	0.500		87.1	80-120			
<b>LCS Dup (B109632-BSD1)</b>				Prepared: 11/13/14 Analyzed: 11/14/14						
Lead	0.448	0.010	mg/L	0.500		89.6	80-120	2.84	20	

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

2PEX-6 (1-3ft)

*SW-846 8082A*

Lab Sample ID: 14K0420-03RE1 Date(s) Analyzed: 11/15/2014 11/15/2014

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	53	
	2	0.00	0.00	0.00	56	5.7

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

DUP-1

Lab Sample ID: 14K0420-14RE1 Date(s) Analyzed: 11/15/2014 11/15/2014

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	54	
	2	0.00	0.00	0.00	57	6.0

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

LCS
-----

Lab Sample ID:                     B109783-BS1                                          Date(s) Analyzed:           11/15/2014                     11/15/2014          

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	0.18	
	2	0.00	0.00	0.00	0.17	7
Aroclor-1260	1	0.00	0.00	0.00	0.17	
	2	0.00	0.00	0.00	0.17	2

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8082A*

Lab Sample ID: B109783-BSD1 Date(s) Analyzed: 11/15/2014 11/15/2014

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	0.20	
	2	0.00	0.00	0.00	0.19	5
Aroclor-1260	1	0.00	0.00	0.00	0.19	
	2	0.00	0.00	0.00	0.18	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.
  - B-07 Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
  - S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 6010C in Water</b>	
Cadmium	NY,CT,ME,NC,NH,VA,NJ
Lead	NY,CT,ME,NC,NH,VA,NJ
<b>SW-846 8082A in Soil</b>	
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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
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	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

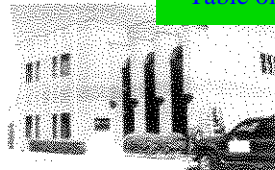








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 East Longmeadow, MA. 01028  
 P: 413-525-2332  
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 www.contestlabs.com



**Sample Receipt Checklist**

CLIENT NAME: TRC RECEIVED BY: JDL DATE: 11/10/14

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 38

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		8 oz <u>amber/clear</u> jar	<u>29</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: \_\_\_\_\_

Page 2 of 2  
**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: 11/10/14 1830

**Meghan Kelley**

---

**From:** Oliveira, Matthew [MOliveira@trcsolutions.com]  
**Sent:** Wednesday, November 12, 2014 8:16 AM  
**To:** 'mkelley@contestlabs.com'  
**Cc:** Fiero, Jason; Jason Fiero (egeologist@yahoo.com)  
**Subject:** 101 & 102 Greenwood 2PEX-6  
**Attachments:** 101-102 Greenwood COCs Nov7-10 2014.pdf

Good Morning Meghan,

Can you please change the ID of the third sample listed on page one of the attached chains to just 2PEX-6 (remove the R at the end)?

Thanks,  
Matt

Matthew Oliveira, CHMM  
Project Manager/Environmental Scientist



670 N. Commercial Street, Suite 203, Manchester, NH 03101  
T: 603-621-9259 ext. 29 | F: 603-621-9279 | C: 978-935-0276

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## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 14K0420

Project Location: Greenwood St., New Bedford

RTN:

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

14K0420-01 thru 14K0420-29

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 (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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

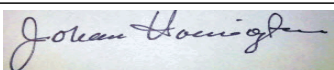
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 11/17/14

November 17, 2014

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

Project Location: Greenwood St., New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 14K0472

Enclosed are results of analyses for samples received by the laboratory on November 11, 2014. 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: David Sullivan

REPORT DATE: 11/17/2014

PURCHASE ORDER NUMBER: 74486

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14K0472

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

PROJECT LOCATION: Greenwood St., New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CTP-101-4D-E (0-4ft)	14K0472-01	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-S1 (0-4ft)	14K0472-02	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-S1 (4-8ft)	14K0472-03	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4D-E (4-8ft)	14K0472-04	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4D-N (0-4ft)	14K0472-05	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-W1 (0-4ft)	14K0472-06	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4A/5C-W1 (4-8ft)	14K0472-07	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4D-N (4-8ft)	14K0472-08	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4D-W (0-4ft)	14K0472-09	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4D-W (4-8ft)	14K0472-10	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4D-S (0-4ft)	14K0472-11	Soil		SM 2540G SW-846 1311 SW-846 6010C	
CTP-101-4D-S (4-8ft)	14K0472-12	Soil		SM 2540G SW-846 1311 SW-846 6010C	
DUP-3	14K0472-13	Soil		SM 2540G SW-846 1311 SW-846 6010C	

**CASE NARRATIVE SUMMARY**

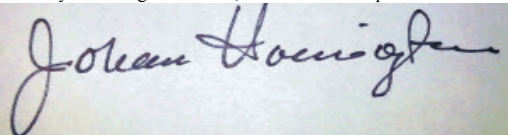
All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only Pb and Cd were requested and reported.

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

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: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-E (0-4ft)

Sampled: 11/10/2014 13:00

Sample ID: 14K0472-01

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	80.5		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-E (0-4ft)

Sampled: 11/10/2014 13:00

Sample ID: 14K0472-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.011	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 18:22	OP
Lead	0.32	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 18:22	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-S1 (0-4ft)

Sampled: 11/10/2014 13:05

Sample ID: 14K0472-02

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	80.9		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-S1 (0-4ft)

Sampled: 11/10/2014 13:05

Sample ID: 14K0472-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	4.3	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 18:43	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-S1 (4-8ft)

Sampled: 11/10/2014 13:15

Sample ID: 14K0472-03

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	73.4		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-S1 (4-8ft)

Sampled: 11/10/2014 13:15

Sample ID: 14K0472-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	4.1	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 18:48	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-E (4-8ft)

Sampled: 11/10/2014 13:20

Sample ID: 14K0472-04

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	74.9		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-E (4-8ft)

Sampled: 11/10/2014 13:20

Sample ID: 14K0472-04

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.30	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 18:54	OP
Lead	3.6	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 18:54	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-N (0-4ft)

Sampled: 11/10/2014 13:40

Sample ID: 14K0472-05

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	82.5		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-N (0-4ft)

Sampled: 11/10/2014 13:40

Sample ID: 14K0472-05

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.19	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:00	OP
Lead	1.9	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:00	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-W1 (0-4ft)

Sampled: 11/10/2014 13:45

Sample ID: 14K0472-06

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	80.5		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-W1 (0-4ft)

Sampled: 11/10/2014 13:45

Sample ID: 14K0472-06

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.9	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:05	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-W1 (4-8ft)

Sampled: 11/10/2014 14:00

Sample ID: 14K0472-07

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	59.2		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4A/5C-W1 (4-8ft)

Sampled: 11/10/2014 14:00

Sample ID: 14K0472-07

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.51	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:11	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-N (4-8ft)

Sampled: 11/10/2014 14:05

Sample ID: 14K0472-08

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	52.7		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-N (4-8ft)

Sampled: 11/10/2014 14:05

Sample ID: 14K0472-08

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.050	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:16	OP
Lead	0.32	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:16	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-W (0-4ft)

Sampled: 11/10/2014 14:15

Sample ID: 14K0472-09

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	78.7		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-W (0-4ft)

Sampled: 11/10/2014 14:15

Sample ID: 14K0472-09

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.036	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:22	OP
Lead	0.37	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:22	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-W (4-8ft)

Sampled: 11/10/2014 14:25

Sample ID: 14K0472-10

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	63.3		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-W (4-8ft)

Sampled: 11/10/2014 14:25

Sample ID: 14K0472-10

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.018	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:28	OP
Lead	0.77	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:28	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-S (0-4ft)

Sampled: 11/10/2014 14:40

Sample ID: 14K0472-11

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	80.8		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-S (0-4ft)

Sampled: 11/10/2014 14:40

Sample ID: 14K0472-11

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.0068	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:33	OP
Lead	0.29	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:33	OP



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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-S (4-8ft)

Sampled: 11/10/2014 14:50

Sample ID: 14K0472-12

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	65.2		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: CTP-101-4D-S (4-8ft)

Sampled: 11/10/2014 14:50

Sample ID: 14K0472-12

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.097	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:54	OP
Lead	1.3	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 19:54	OP

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: DUP-3

Sampled: 11/10/2014 00:00

Sample ID: 14K0472-13

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	69.4		% Wt	1		SM 2540G	11/13/14	11/13/14 12:44	MRL

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

Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0472

Date Received: 11/11/2014

Field Sample #: DUP-3

Sampled: 11/10/2014 00:00

Sample ID: 14K0472-13

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.37	0.0040	mg/L	1		SW-846 6010C	11/14/14	11/14/14 20:00	OP
Lead	6.3	0.010	mg/L	1		SW-846 6010C	11/14/14	11/14/14 20:00	OP

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14K0472-01 [CTP-101-4D-E (0-4ft)]	B109603	11/13/14
14K0472-02 [CTP-101-4A/5C-S1 (0-4ft)]	B109603	11/13/14
14K0472-03 [CTP-101-4A/5C-S1 (4-8ft)]	B109603	11/13/14
14K0472-04 [CTP-101-4D-E (4-8ft)]	B109603	11/13/14
14K0472-05 [CTP-101-4D-N (0-4ft)]	B109603	11/13/14
14K0472-06 [CTP-101-4A/5C-W1 (0-4ft)]	B109603	11/13/14
14K0472-07 [CTP-101-4A/5C-W1 (4-8ft)]	B109603	11/13/14
14K0472-08 [CTP-101-4D-N (4-8ft)]	B109603	11/13/14
14K0472-09 [CTP-101-4D-W (0-4ft)]	B109603	11/13/14
14K0472-10 [CTP-101-4D-W (4-8ft)]	B109603	11/13/14
14K0472-11 [CTP-101-4D-S (0-4ft)]	B109603	11/13/14
14K0472-12 [CTP-101-4D-S (4-8ft)]	B109603	11/13/14
14K0472-13 [DUP-3]	B109603	11/13/14

**Prep Method: SW-846 3010A-SW-846 6010C**

**Leachates were extracted on 11/13/2014 per SW-846 1311 in Batch B109607**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14K0472-01 [CTP-101-4D-E (0-4ft)]	B109720	50.0	50.0	11/14/14
14K0472-02 [CTP-101-4A/5C-S1 (0-4ft)]	B109720	50.0	50.0	11/14/14
14K0472-03 [CTP-101-4A/5C-S1 (4-8ft)]	B109720	50.0	50.0	11/14/14
14K0472-04 [CTP-101-4D-E (4-8ft)]	B109720	50.0	50.0	11/14/14
14K0472-05 [CTP-101-4D-N (0-4ft)]	B109720	50.0	50.0	11/14/14
14K0472-06 [CTP-101-4A/5C-W1 (0-4ft)]	B109720	50.0	50.0	11/14/14
14K0472-07 [CTP-101-4A/5C-W1 (4-8ft)]	B109720	50.0	50.0	11/14/14
14K0472-08 [CTP-101-4D-N (4-8ft)]	B109720	50.0	50.0	11/14/14
14K0472-09 [CTP-101-4D-W (0-4ft)]	B109720	50.0	50.0	11/14/14
14K0472-10 [CTP-101-4D-W (4-8ft)]	B109720	50.0	50.0	11/14/14
14K0472-11 [CTP-101-4D-S (0-4ft)]	B109720	50.0	50.0	11/14/14
14K0472-12 [CTP-101-4D-S (4-8ft)]	B109720	50.0	50.0	11/14/14
14K0472-13 [DUP-3]	B109720	50.0	50.0	11/14/14

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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
<b>Batch B109603 - % Solids</b>										
<b>Duplicate (B109603-DUP1)</b>		<b>Source: 14K0472-01</b>			Prepared & Analyzed: 11/13/14					
% Solids	78.9		% Wt		80.5			2.01	20	
<b>Duplicate (B109603-DUP2)</b>		<b>Source: 14K0472-05</b>			Prepared & Analyzed: 11/13/14					
% Solids	83.7		% Wt		82.5			1.44	20	
<b>Duplicate (B109603-DUP3)</b>		<b>Source: 14K0472-13</b>			Prepared & Analyzed: 11/13/14					
% Solids	75.9		% Wt		69.4			8.95	20	

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**QUALITY CONTROL**

**TCLP - Metals Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B109720 - SW-846 3010A</b>										
<b>Blank (B109720-BLK1)</b>				Prepared & Analyzed: 11/14/14						
Cadmium	ND	0.0040	mg/L							
Lead	ND	0.010	mg/L							
<b>LCS (B109720-BS1)</b>				Prepared & Analyzed: 11/14/14						
Cadmium	0.505	0.0040	mg/L	0.500		101	80-120			
Lead	0.456	0.010	mg/L	0.500		91.3	80-120			
<b>LCS Dup (B109720-BSD1)</b>				Prepared & Analyzed: 11/14/14						
Cadmium	0.501	0.0040	mg/L	0.500		100	80-120	0.846	20	
Lead	0.449	0.010	mg/L	0.500		89.8	80-120	1.63	20	

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**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 6010C in Water</i>	
Cadmium	NY,CT,ME,NC,NH,VA,NJ
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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
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	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015



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 Email: info@contestlabs.com  
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# CHAIN OF CUSTODY RECORD

39 Spruce Street  
 East Longmeadow, MA 01028

Company Name: TRC  
 Address: 650 SUPERIOR ST  
 Attention: DAVID SULLIVAN  
 Project Location: GREENWOOD ST NEW BRIDGEPOR  
 Sampled By: JASON FIERO 617-462-5090

Project # 1505B  
 Client PO# 34460  
 Telephone: 978-970-5600  
 Project # 1505B  
 Client PO# 34460

DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE

Format:  EXCEL  OGIS

Collection:  OTHER  "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)  
 Yes  No  
 Date: 3/24/14  
 Proposal date

Beginning Date/Time: 11/10/14 13:00  
 Ending Date/Time: 13:05  
 Composite:    
 Matrix Code: S

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Matrix Code
01	CTP-101-4D-E 0.4'	11/10/14	13:00	<input checked="" type="checkbox"/>	S
02	CTP-101-4A/SC-S 0.4'	"	13:05	<input checked="" type="checkbox"/>	"
03	CTP-101-4A/SC-S 4-8'	"	13:15	<input checked="" type="checkbox"/>	"
04	CTP-101-4D-E 4-8'	"	13:20	<input checked="" type="checkbox"/>	"
05	CTP-101-4D-N 0.4'	"	13:40	<input checked="" type="checkbox"/>	"
06	CTP-101-4A/SC-W 0.4'	"	13:45	<input checked="" type="checkbox"/>	"
07	CTP-101-4A/SC-W 4-8'	"	14:00	<input checked="" type="checkbox"/>	"
08	CTP-101-4D-N 4-8'	"	14:05	<input checked="" type="checkbox"/>	"
09	CTP-101-4D-W 0.4'	"	14:15	<input checked="" type="checkbox"/>	"
10	CTP-101-4D-W 4-8'	"	14:25	<input checked="" type="checkbox"/>	"

Comments: 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

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

Accredited: NELAC & AIHA-LAP, LLC

WBE/DSE Certificate

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Matrix Code	Analysis Requested	# of Containers
01	CTP-101-4D-E 0.4'	11/10/14	13:00	<input checked="" type="checkbox"/>	S		
02	CTP-101-4A/SC-S 0.4'	"	13:05	<input checked="" type="checkbox"/>	"		
03	CTP-101-4A/SC-S 4-8'	"	13:15	<input checked="" type="checkbox"/>	"		
04	CTP-101-4D-E 4-8'	"	13:20	<input checked="" type="checkbox"/>	"		
05	CTP-101-4D-N 0.4'	"	13:40	<input checked="" type="checkbox"/>	"		
06	CTP-101-4A/SC-W 0.4'	"	13:45	<input checked="" type="checkbox"/>	"		
07	CTP-101-4A/SC-W 4-8'	"	14:00	<input checked="" type="checkbox"/>	"		
08	CTP-101-4D-N 4-8'	"	14:05	<input checked="" type="checkbox"/>	"		
09	CTP-101-4D-W 0.4'	"	14:15	<input checked="" type="checkbox"/>	"		
10	CTP-101-4D-W 4-8'	"	14:25	<input checked="" type="checkbox"/>	"		

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 INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



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 www.contestlabs.com

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
 East Longmeadow, MA 01028

Company Name: TRC  
 Address: 650 SUPPICK ST  
 Attention: DAVID SULLIVAN  
 Project Location: GREENWOOD ST NEW BEDFORD  
 Sampled By: JASON FIERZ  
 Project # 115058  
 Client PO# 744B  
 Telephone: 978-370-5600  
 Project # 115058  
 Client PO# 744B  
 DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE  
 Format:  EXCEL  OTHER  
 Email:  
 Project Proposal Provided? (for billing purposes)  
 YES  NO  PROPOSAL DATE

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Matrix Date	Cont Date
		Beginning Date/Time	Ending Date/Time		
11	CTP-101-4D-S 0-4'	11/10/14	14:40	✓	✓
12	CTP-101-4D-S 4-8'	"	14:50	✓	✓
13	DUP. 3	"	--	✓	✓

Comments:  
 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

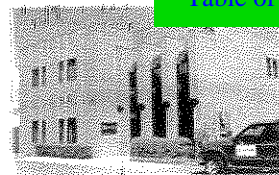
Signature	Date/Time	Turnaround	Detection Limit Requirements
<i>[Signature]</i>	11/11/14	<input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> Other	Massachusetts
<i>[Signature]</i>	11/11/14 12:00	<input type="checkbox"/> 24-Hr <input type="checkbox"/> 48-Hr <input checked="" type="checkbox"/> 72-Hr <input type="checkbox"/> 14-Day	Connecticut
<i>[Signature]</i>	11/11/14 17:40	<input type="checkbox"/> Require lab approval	Other

**Is your project MCP or RCP?**

MCP Form Required  
 RCP Form Required  
 MA State DW Form Required FWSID #

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

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 East Longmeadow, MA. 01028  
 P: 413-525-2332  
 F: 413-525-6405  
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### Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: JDL DATE: 11/11/14

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 4.7

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		8 oz <u>amber</u> /clear jar	<u>13</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?

Log-In Technician Initials: JDL

Date/Time:

Date/Time: 11/11/14 1740

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 14K0472

Project Location: Greenwood St., New Bedford

RTN:

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

14K0472-01 thru 14K0472-13

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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

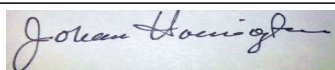
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 11/17/14

November 19, 2014

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

Project Location: Greenwood St., New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 14K0756

Enclosed are results of analyses for samples received by the laboratory on November 17, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley  
Project Manager

## Table of Contents

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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: 11/19/2014

PURCHASE ORDER NUMBER: 74486

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14K0756

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

PROJECT LOCATION: Greenwood St., New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CTP-102-7-N (0-3ft)	14K0756-01	Soil		SM 2540G	
				SW-846 8082A	
CTP-102-7-E (0-3ft)	14K0756-02	Soil		SM 2540G	
				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.

**SW-846 8082A****Qualifications:****S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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

14K0756-01[CTP-102-7-N (0-3ft)], 14K0756-02[CTP-102-7-E (0-3ft)]

**Decachlorobiphenyl [2C]**

14K0756-01[CTP-102-7-N (0-3ft)], 14K0756-02[CTP-102-7-E (0-3ft)]

**Tetrachloro-m-xylene**

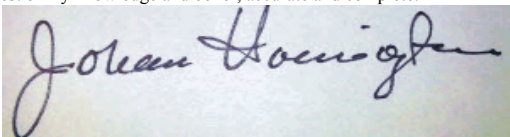
14K0756-01[CTP-102-7-N (0-3ft)], 14K0756-02[CTP-102-7-E (0-3ft)]

**Tetrachloro-m-xylene [2C]**

14K0756-01[CTP-102-7-N (0-3ft)], 14K0756-02[CTP-102-7-E (0-3ft)]

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: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0756

Date Received: 11/17/2014

Field Sample #: CTP-102-7-N (0-3ft)

Sampled: 11/7/2014 10:00

Sample ID: 14K0756-01

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	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1221 [1]	ND	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1232 [1]	ND	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1242 [1]	ND	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1248 [1]	ND	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1254 [2]	15	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1260 [1]	ND	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1262 [1]	ND	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Aroclor-1268 [1]	ND	2.0	mg/Kg dry	100		SW-846 8082A	11/17/14	11/19/14 5:57	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			11/19/14 5:57	
Decachlorobiphenyl [2]		*	30-150		S-01			11/19/14 5:57	
Tetrachloro-m-xylene [1]		*	30-150		S-01			11/19/14 5:57	
Tetrachloro-m-xylene [2]		*	30-150		S-01			11/19/14 5:57	

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Work Order: 14K0756

Date Received: 11/17/2014

Field Sample #: CTP-102-7-N (0-3ft)

Sampled: 11/7/2014 10:00

Sample ID: 14K0756-01

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	97.2		% Wt	1		SM 2540G	11/19/14	11/19/14 10:05	MRL

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Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0756

Date Received: 11/17/2014

Field Sample #: CTP-102-7-E (0-3ft)

Sampled: 11/7/2014 10:30

Sample ID: 14K0756-02

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	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1254 [2]	4.8	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1260 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	11/17/14	11/19/14 6:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			11/19/14 6:09	
Decachlorobiphenyl [2]		*	30-150		S-01			11/19/14 6:09	
Tetrachloro-m-xylene [1]		*	30-150		S-01			11/19/14 6:09	
Tetrachloro-m-xylene [2]		*	30-150		S-01			11/19/14 6:09	

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Project Location: Greenwood St., New Bedford

Sample Description:

Work Order: 14K0756

Date Received: 11/17/2014

Field Sample #: CTP-102-7-E (0-3ft)

Sampled: 11/7/2014 10:30

Sample ID: 14K0756-02

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	82.7		% Wt	1		SM 2540G	11/19/14	11/19/14 10:05	MRL

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

Lab Number [Field ID]	Batch	Date
14K0756-01 [CTP-102-7-N (0-3ft)]	B110041	11/19/14
14K0756-02 [CTP-102-7-E (0-3ft)]	B110041	11/19/14

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14K0756-01 [CTP-102-7-N (0-3ft)]	B109899	10.3	10.0	11/17/14
14K0756-02 [CTP-102-7-E (0-3ft)]	B109899	10.3	10.0	11/17/14

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
<b>Batch B109899 - SW-846 3540C</b>										
<b>Blank (B109899-BLK1)</b>										
Prepared: 11/17/14 Analyzed: 11/18/14										
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	0.135		mg/Kg wet	0.200		67.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		85.0	30-150			
<b>LCS (B109899-BS1)</b>										
Prepared: 11/17/14 Analyzed: 11/18/14										
Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		88.1	40-140			
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		84.4	40-140			
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		82.6	40-140			
Aroclor-1260 [2C]	0.15	0.10	mg/Kg wet	0.200		76.3	40-140			
Surrogate: Decachlorobiphenyl	0.138		mg/Kg wet	0.200		69.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.144		mg/Kg wet	0.200		71.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		80.9	30-150			
<b>LCS Dup (B109899-BSD1)</b>										
Prepared: 11/17/14 Analyzed: 11/19/14										
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		97.6	40-140	10.3	30	
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		92.1	40-140	8.71	30	
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		90.1	40-140	8.63	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		82.4	40-140	7.77	30	
Surrogate: Decachlorobiphenyl	0.142		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.148		mg/Kg wet	0.200		73.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.4	30-150			



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

CTP-102-7-N (0-3ft)

*SW-846 8082A*

Lab Sample ID: 14K0756-01 Date(s) Analyzed: 11/19/2014 11/19/2014

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	14	
	2	0.00	0.00	0.00	15	7.6

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

**CTP-102-7-E (0-3ft)**

Lab Sample ID: 14K0756-02 Date(s) Analyzed: 11/19/2014 11/19/2014

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	4.5	
	2	0.00	0.00	0.00	4.8	6.2





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**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.
- S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
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	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015









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 www.ontestlabs.com

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
 East Longmeadow, MA 01028

Company Name: TRC Telephone: 978-970-5600  
 617-462-8090

Address: 650 SUFFOLK ST  
 LOWELL MA  
 Attention: DAVID SULLIVAN  
 Project Location: GREENWOOD ST  
 Sampled By: JASON FIERO

Project # Client PO#  
 DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE

Format:  PDF  EXCEL  GIS  
 OTHER  
 Collection:  "Enhanced Data Package"  
 Matrix  Lab Data

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

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Lab Data	Matrix	Lab Data
21	CTP-101-5A-N1-E 4-B'	11/10/14	9:40	✓	✓	✓	✓	✓
22	CTP-101-4A/5C-E 0-4'	"	10:00	✓	✓	✓	✓	✓
23	CTP-101-4A/5C-E 4-B'	"	10:15	✓	✓	✓	✓	✓
24	CTP-101-4A/5C-N 0-4'	"	10:30	✓	✓	✓	✓	✓
25	CTP-101-4A/5C-N 4-B'	"	10:45	✓	✓	✓	✓	✓
26	CTP-101-4A/5C-S 0-4'	"	11:00	✓	✓	✓	✓	✓
27	CTP-101-4A/5C-S 4-B'	"	11:15	✓	✓	✓	✓	✓
28	CTP-101-4A/5C-W 0-4'	"	11:40	✓	✓	✓	✓	✓
29	CTP-101-4A/5C W 4-B'	"	11:45	✓	✓	✓	✓	✓

ANALYSIS REQUESTED

Matrix:  Field Filtered  Lab to Filter

Container Code

Matrix Code: A=amber glass, G=glass, P=plastic, ST=sterile, V=vial, S=sunscreen can, T=teardrop bag, O=Other

Matrix Code: I=Isot, M=HCL, M=Mercuric, N=Nitric Acid, S=Sulfuric Acid, B=Sodium bisulfate, X=Na hydroxide, T=Na thiosulfate, O=Other

Matrix Code: GM=groundwater, WW=wastewater, DW=drinking water, A=air, S=solid, O=other

Is your project MCP or RCP?  MCP Form Required  RCP Form Required  MA State DW Form Required PWSID # NELAC & AIMA-LAP, LLC Accredited WBE/OBE Certified

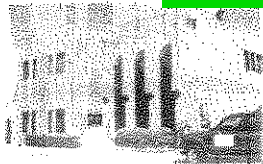
Comments: Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box: H - High; M - Medium; L - Low; C - Clean; U - Unknown

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

Requisitioned by (signature) Date/Time: 11/10/14 13:30  
 Requisitioned by (signature) Date/Time: 11/10/14 13:30  
 Requisitioned by (signature) Date/Time: 11/10/14 18:30  
 Requisitioned by (signature) Date/Time: 11/10/14 18:30

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 IS 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: TRC RECEIVED BY: JDL DATE: 11/10/14

- 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 3.8

- 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		8 oz <u>amber/clear</u> jar	29
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 _____ 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.	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: 11/10/14 1830

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 14K0756

Project Location: Greenwood St., New Bedford

RTN:

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

14K0756-01 thru 14K0756-02

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

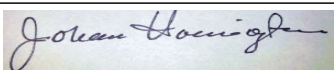
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 11/19/14



## ANALYTICAL REPORT

Lab Number:	L1428242
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3600
Project Name:	ARP NEW BEDFORD MA
Project Number:	115058-1830.4
Report Date:	11/26/14

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1428242-01	2PEX 6-E 1-3'	SOIL	102 GREENWOOD	11/21/14 11:30	11/21/14
L1428242-02	2PEX 6-E1 1-3'	SOIL	102 GREENWOOD	11/21/14 11:40	11/21/14
L1428242-03	2PEX 6-N 1-3'	SOIL	102 GREENWOOD	11/21/14 11:50	11/21/14
L1428242-04	2PEX 6-N1 1-3'	SOIL	102 GREENWOOD	11/21/14 12:05	11/21/14
L1428242-05	DUP-1	SOIL	102 GREENWOOD	11/21/14 00:00	11/21/14

Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

**MADEP MCP Response Action Analytical Report Certification**

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

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

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



**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

#### HOLD POLICY

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

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

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**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

### Case Narrative (continued)

MCP Related Narratives

PCBs

L1428242-03 and -05 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

L1428242-03 and -05: All target analytes, with the exception of Aroclor 1254, did not achieve the requested CAM reporting limits.

In reference to question H:

L1428242-03 and -05: The surrogate recoveries are below the acceptance criteria (30-150%) for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

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

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 11/26/14

# ORGANICS

# PCBS

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-01  
 Client ID: 2PEX 6-E 1-3'  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 06:04  
 Analyst: JW  
 Percent Solids: 92%

Date Collected: 11/21/14 11:30  
 Date Received: 11/21/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.8	--	1	A
Aroclor 1221	ND		ug/kg	34.8	--	1	A
Aroclor 1232	ND		ug/kg	34.8	--	1	A
Aroclor 1242	ND		ug/kg	34.8	--	1	A
Aroclor 1248	ND		ug/kg	34.8	--	1	A
Aroclor 1254	128		ug/kg	34.8	--	1	B
Aroclor 1260	37.2		ug/kg	34.8	--	1	B
Aroclor 1262	ND		ug/kg	34.8	--	1	A
Aroclor 1268	ND		ug/kg	34.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	86		30-150	B

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-03 D  
 Client ID: 2PEX 6-N 1-3'  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 06:54  
 Analyst: JW  
 Percent Solids: 89%

Date Collected: 11/21/14 11:50  
 Date Received: 11/21/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	363	--	10	A
Aroclor 1221	ND		ug/kg	363	--	10	A
Aroclor 1232	ND		ug/kg	363	--	10	A
Aroclor 1242	ND		ug/kg	363	--	10	A
Aroclor 1248	ND		ug/kg	363	--	10	A
Aroclor 1254	3440		ug/kg	363	--	10	B
Aroclor 1260	ND		ug/kg	363	--	10	A
Aroclor 1262	ND		ug/kg	363	--	10	A
Aroclor 1268	ND		ug/kg	363	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-05 D  
 Client ID: DUP-1  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 07:11  
 Analyst: JW  
 Percent Solids: 88%

Date Collected: 11/21/14 00:00  
 Date Received: 11/21/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	358	--	10	A
Aroclor 1221	ND		ug/kg	358	--	10	A
Aroclor 1232	ND		ug/kg	358	--	10	A
Aroclor 1242	ND		ug/kg	358	--	10	A
Aroclor 1248	ND		ug/kg	358	--	10	A
Aroclor 1254	3830		ug/kg	358	--	10	B
Aroclor 1260	ND		ug/kg	358	--	10	A
Aroclor 1262	ND		ug/kg	358	--	10	A
Aroclor 1268	ND		ug/kg	358	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 05:46  
 Analyst: JW

Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01,03,05 Batch: WG743584-1						
Aroclor 1016	ND		ug/kg	32.6	--	A
Aroclor 1221	ND		ug/kg	32.6	--	A
Aroclor 1232	ND		ug/kg	32.6	--	A
Aroclor 1242	ND		ug/kg	32.6	--	A
Aroclor 1248	ND		ug/kg	32.6	--	A
Aroclor 1254	ND		ug/kg	32.6	--	A
Aroclor 1260	ND		ug/kg	32.6	--	A
Aroclor 1262	ND		ug/kg	32.6	--	A
Aroclor 1268	ND		ug/kg	32.6	--	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	62		30-150	B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: ARP NEW BEDFORD MA

Project Number: 115058-1830.4

Lab Number: L1428242

Report Date: 11/26/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01,03,05 Batch: WG743584-2 WG743584-3									
Aroclor 1016	58		52		40-140	11		30	A
Aroclor 1260	62		56		40-140	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		55		30-150	A
Decachlorobiphenyl	77		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		60		30-150	B
Decachlorobiphenyl	82		71		30-150	B



# **INORGANICS & MISCELLANEOUS**

Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-01  
 Client ID: 2PEX 6-E 1-3'  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil

Date Collected: 11/21/14 11:30  
 Date Received: 11/21/14  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	11/21/14 21:24	30,2540G	RT



Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

## SAMPLE RESULTS

Lab ID: L1428242-03  
 Client ID: 2PEX 6-N 1-3'  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil

Date Collected: 11/21/14 11:50  
 Date Received: 11/21/14  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	11/21/14 21:24	30,2540G	RT



Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-05  
 Client ID: DUP-1  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil

Date Collected: 11/21/14 00:00  
 Date Received: 11/21/14  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	11/21/14 21:24	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** ARP NEW BEDFORD MA

**Project Number:** 115058-1830.4

**Lab Number:** L1428242

**Report Date:** 11/26/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05 QC Batch ID: WG742892-1 QC Sample: L1428225-01 Client ID: DUP Sample						
Solids, Total	84.9	84.6	%	0		20

Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1428242-01A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1428242-02A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	HOLD-8082()
L1428242-03A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1428242-04A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	HOLD-8082()
L1428242-05A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),MCP-8082-10-3540C(365)

\*Values in parentheses indicate holding time in days

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

## GLOSSARY

### Acronyms

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

### Footnotes

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

### Terms

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

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

**Report Format:** Data Usability Report



**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

#### **Data Qualifiers**

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



**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

## LIMITATION OF LIABILITIES

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

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



## Certification Information

Last revised April 15, 2014

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

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8330A/B:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

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**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

**EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

**SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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





## ANALYTICAL REPORT

Lab Number:	L1428242
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3600
Project Name:	ARP NEW BEDFORD MA
Project Number:	115058-1830.4
Report Date:	11/26/14

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1428242-01	2PEX 6-E 1-3'	SOIL	102 GREENWOOD	11/21/14 11:30	11/21/14
L1428242-02	2PEX 6-E1 1-3'	SOIL	102 GREENWOOD	11/21/14 11:40	11/21/14
L1428242-03	2PEX 6-N 1-3'	SOIL	102 GREENWOOD	11/21/14 11:50	11/21/14
L1428242-04	2PEX 6-N1 1-3'	SOIL	102 GREENWOOD	11/21/14 12:05	11/21/14
L1428242-05	DUP-1	SOIL	102 GREENWOOD	11/21/14 00:00	11/21/14

Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

**MADEP MCP Response Action Analytical Report Certification**

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

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

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



**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

#### HOLD POLICY

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

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

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**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

### Case Narrative (continued)

MCP Related Narratives

PCBs

L1428242-03 and -05 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question G:

L1428242-03 and -05: All target analytes, with the exception of Aroclor 1254, did not achieve the requested CAM reporting limits.

In reference to question H:

L1428242-03 and -05: The surrogate recoveries are below the acceptance criteria (30-150%) for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

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

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 11/26/14



# ORGANICS

# PCBS

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-01  
 Client ID: 2PEX 6-E 1-3'  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 06:04  
 Analyst: JW  
 Percent Solids: 92%

Date Collected: 11/21/14 11:30  
 Date Received: 11/21/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.8	--	1	A
Aroclor 1221	ND		ug/kg	34.8	--	1	A
Aroclor 1232	ND		ug/kg	34.8	--	1	A
Aroclor 1242	ND		ug/kg	34.8	--	1	A
Aroclor 1248	ND		ug/kg	34.8	--	1	A
Aroclor 1254	128		ug/kg	34.8	--	1	B
Aroclor 1260	37.2		ug/kg	34.8	--	1	B
Aroclor 1262	ND		ug/kg	34.8	--	1	A
Aroclor 1268	ND		ug/kg	34.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	86		30-150	B

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-03 D  
 Client ID: 2PEX 6-N 1-3'  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 06:54  
 Analyst: JW  
 Percent Solids: 89%

Date Collected: 11/21/14 11:50  
 Date Received: 11/21/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	363	--	10	A
Aroclor 1221	ND		ug/kg	363	--	10	A
Aroclor 1232	ND		ug/kg	363	--	10	A
Aroclor 1242	ND		ug/kg	363	--	10	A
Aroclor 1248	ND		ug/kg	363	--	10	A
Aroclor 1254	3440		ug/kg	363	--	10	B
Aroclor 1260	ND		ug/kg	363	--	10	A
Aroclor 1262	ND		ug/kg	363	--	10	A
Aroclor 1268	ND		ug/kg	363	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-05 D  
 Client ID: DUP-1  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 07:11  
 Analyst: JW  
 Percent Solids: 88%

Date Collected: 11/21/14 00:00  
 Date Received: 11/21/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	358	--	10	A
Aroclor 1221	ND		ug/kg	358	--	10	A
Aroclor 1232	ND		ug/kg	358	--	10	A
Aroclor 1242	ND		ug/kg	358	--	10	A
Aroclor 1248	ND		ug/kg	358	--	10	A
Aroclor 1254	3830		ug/kg	358	--	10	B
Aroclor 1260	ND		ug/kg	358	--	10	A
Aroclor 1262	ND		ug/kg	358	--	10	A
Aroclor 1268	ND		ug/kg	358	--	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 97,8082A  
 Analytical Date: 11/26/14 05:46  
 Analyst: JW

Extraction Method: EPA 3540C  
 Extraction Date: 11/25/14 07:00  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/26/14  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/26/14

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01,03,05 Batch: WG743584-1						
Aroclor 1016	ND		ug/kg	32.6	--	A
Aroclor 1221	ND		ug/kg	32.6	--	A
Aroclor 1232	ND		ug/kg	32.6	--	A
Aroclor 1242	ND		ug/kg	32.6	--	A
Aroclor 1248	ND		ug/kg	32.6	--	A
Aroclor 1254	ND		ug/kg	32.6	--	A
Aroclor 1260	ND		ug/kg	32.6	--	A
Aroclor 1262	ND		ug/kg	32.6	--	A
Aroclor 1268	ND		ug/kg	32.6	--	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	62		30-150	B



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01,03,05 Batch: WG743584-2 WG743584-3									
Aroclor 1016	58		52		40-140	11		30	A
Aroclor 1260	62		56		40-140	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		55		30-150	A
Decachlorobiphenyl	77		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		60		30-150	B
Decachlorobiphenyl	82		71		30-150	B



# **INORGANICS & MISCELLANEOUS**



Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

**SAMPLE RESULTS**

Lab ID: L1428242-01  
 Client ID: 2PEX 6-E 1-3'  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil

Date Collected: 11/21/14 11:30  
 Date Received: 11/21/14  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	11/21/14 21:24	30,2540G	RT



**Project Name:** ARP NEW BEDFORD MA**Lab Number:** L1428242**Project Number:** 115058-1830.4**Report Date:** 11/26/14**SAMPLE RESULTS****Lab ID:** L1428242-03**Date Collected:** 11/21/14 11:50**Client ID:** 2PEX 6-N 1-3'**Date Received:** 11/21/14**Sample Location:** 102 GREENWOOD**Field Prep:** Not Specified**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	11/21/14 21:24	30,2540G	RT



Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

## SAMPLE RESULTS

Lab ID: L1428242-05  
 Client ID: DUP-1  
 Sample Location: 102 GREENWOOD  
 Matrix: Soil

Date Collected: 11/21/14 00:00  
 Date Received: 11/21/14  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	11/21/14 21:24	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

Project Name: ARP NEW BEDFORD MA

Project Number: 115058-1830.4

Lab Number: L1428242

Report Date: 11/26/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05 QC Batch ID: WG742892-1 QC Sample: L1428225-01 Client ID: DUP Sample						
Solids, Total	84.9	84.6	%	0		20

Project Name: ARP NEW BEDFORD MA

Lab Number: L1428242

Project Number: 115058-1830.4

Report Date: 11/26/14

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1428242-01A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1428242-02A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	HOLD-8082()
L1428242-03A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),MCP-8082-10-3540C(365)
L1428242-04A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	HOLD-8082()
L1428242-05A	Glass 250ml/8oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),MCP-8082-10-3540C(365)

\*Values in parentheses indicate holding time in days

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

## GLOSSARY

### Acronyms

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

### Footnotes

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

### Terms

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

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

#### **Data Qualifiers**

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

**Project Name:** ARP NEW BEDFORD MA  
**Project Number:** 115058-1830.4

**Lab Number:** L1428242  
**Report Date:** 11/26/14

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

## LIMITATION OF LIABILITIES

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

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





## Certification Information

Last revised April 15, 2014

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

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8330A/B:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

**EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

**SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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





## ANALYTICAL REPORT

Lab Number:	L1428545
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	ARP NEW BEDFORD, MA
Project Number:	115058/1830/4
Report Date:	12/01/14

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



**Project Name:** ARP NEW BEDFORD, MA  
**Project Number:** 115058/1830/4

**Lab Number:** L1428545  
**Report Date:** 12/01/14

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1428545-01	SB-102-7-PS-0-3'	SOIL	GREENWOOD ST.	11/25/14 12:30	11/25/14
L1428545-02	SB-101-4A/5C-PS-0-5'	SOIL	GREENWOOD ST.	11/25/14 13:30	11/25/14
L1428545-03	SB-101-4D-PS 0-5'	SOIL	GREENWOOD ST.	11/25/14 14:00	11/25/14
L1428545-04	SB-101-4A/5C/5A-PS 0-5'	SOIL	GREENWOOD ST.	11/25/14 14:45	11/25/14

Project Name: ARP NEW BEDFORD, MA

Lab Number: L1428545

Project Number: 115058/1830/4

Report Date: 12/01/14

**MADEP MCP Response Action Analytical Report Certification**

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

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

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



**Project Name:** ARP NEW BEDFORD, MA  
**Project Number:** 115058/1830/4

**Lab Number:** L1428545  
**Report Date:** 12/01/14

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

#### HOLD POLICY

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

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

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**Project Name:** ARP NEW BEDFORD, MA  
**Project Number:** 115058/1830/4

**Lab Number:** L1428545  
**Report Date:** 12/01/14

### Case Narrative (continued)


MCP Related Narratives

Report Submission

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

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/01/14

## METALS



**Project Name:** ARP NEW BEDFORD, MA**Lab Number:** L1428545**Project Number:** 115058/1830/4**Report Date:** 12/01/14**SAMPLE RESULTS**

Lab ID: L1428545-01

Date Collected: 11/25/14 12:30

Client ID: SB-102-7-PS-0-3'

Date Received: 11/25/14

Sample Location: GREENWOOD ST.

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 11/26/14 01:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Lead, TCLP	ND		mg/l	0.50	--	1	12/01/14 11:36	12/01/14 13:18	EPA 3015	1,6010C	JH



**Project Name:** ARP NEW BEDFORD, MA**Lab Number:** L1428545**Project Number:** 115058/1830/4**Report Date:** 12/01/14**SAMPLE RESULTS**

Lab ID: L1428545-02

Date Collected: 11/25/14 13:30

Client ID: SB-101-4A/5C-PS-0-5'

Date Received: 11/25/14

Sample Location: GREENWOOD ST.

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 11/26/14 01:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Lead, TCLP	ND		mg/l	0.50	--	1	12/01/14 11:36	12/01/14 13:34	EPA 3015	1,6010C	JH



**Project Name:** ARP NEW BEDFORD, MA**Lab Number:** L1428545**Project Number:** 115058/1830/4**Report Date:** 12/01/14**SAMPLE RESULTS**

Lab ID: L1428545-03

Date Collected: 11/25/14 14:00

Client ID: SB-101-4D-PS 0-5'

Date Received: 11/25/14

Sample Location: GREENWOOD ST.

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 11/26/14 01:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Westborough Lab</b>											
Cadmium, TCLP	ND		mg/l	0.10	--	1	12/01/14 11:36	12/01/14 13:38	EPA 3015	1,6010C	JH
Lead, TCLP	ND		mg/l	0.50	--	1	12/01/14 11:36	12/01/14 13:38	EPA 3015	1,6010C	JH



**Project Name:** ARP NEW BEDFORD, MA**Lab Number:** L1428545**Project Number:** 115058/1830/4**Report Date:** 12/01/14**SAMPLE RESULTS**

Lab ID: L1428545-04

Date Collected: 11/25/14 14:45

Client ID: SB-101-4A/5C/5A-PS 0-5'

Date Received: 11/25/14

Sample Location: GREENWOOD ST.

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 11/26/14 01:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Westborough Lab</b>											
Cadmium, TCLP	ND		mg/l	0.10	--	1	12/01/14 11:36	12/01/14 13:42	EPA 3015	1,6010C	JH
Lead, TCLP	ND		mg/l	0.50	--	1	12/01/14 11:36	12/01/14 13:42	EPA 3015	1,6010C	JH



Project Name: ARP NEW BEDFORD, MA

Lab Number: L1428545

Project Number: 115058/1830/4

Report Date: 12/01/14

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 01-04 Batch: WG744540-1									
Cadmium, TCLP	ND	mg/l	0.10	--	1	12/01/14 11:36	12/01/14 13:10	1,6010C	JH
Lead, TCLP	ND	mg/l	0.50	--	1	12/01/14 11:36	12/01/14 13:10	1,6010C	JH

### Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 11/26/14 01:24

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** ARP NEW BEDFORD, MA

**Lab Number:** L1428545

**Project Number:** 115058/1830/4

**Report Date:** 12/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-04 Batch: WG744540-2								
Cadmium, TCLP	110		-		75-125	-		20
Lead, TCLP	96		-		75-125	-		20

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** ARP NEW BEDFORD, MA  
**Project Number:** 115058/1830/4

**Lab Number:** L1428545  
**Report Date:** 12/01/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG744540-4 QC Sample: L1428545-01 Client ID: SB-102-7-PS-0-3'												
Cadmium, TCLP	ND	0.51	0.56	110		-	-		75-125	-		20
Lead, TCLP	ND	5.1	5.1	100		-	-		75-125	-		20

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** ARP NEW BEDFORD, MA

**Project Number:** 115058/1830/4

**Lab Number:** L1428545

**Report Date:** 12/01/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG744540-3 QC Sample: L1428545-01 Client ID: SB-102-7-PS-0-3'						
Lead, TCLP	ND	ND	mg/l	NC		20





Project Name: ARP NEW BEDFORD, MA

Lab Number: L1428545

Project Number: 115058/1830/4

Report Date: 12/01/14

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1428545-01A	Glass 250ml/8oz unpreserved	A	N/A	5.0	Y	Absent	-
L1428545-01X	Plastic 120ml HNO3 preserved spl	A	<2	5.0	Y	Absent	PB-CI(180)
L1428545-01X9	Tumble Vessel	A	N/A	5.0	Y	Absent	-
L1428545-02A	Glass 250ml/8oz unpreserved	A	N/A	5.0	Y	Absent	-
L1428545-02X	Plastic 120ml HNO3 preserved spl	A	<2	5.0	Y	Absent	PB-CI(180)
L1428545-02X9	Tumble Vessel	A	N/A	5.0	Y	Absent	-
L1428545-03A	Glass 250ml/8oz unpreserved	A	N/A	5.0	Y	Absent	-
L1428545-03X	Plastic 120ml HNO3 preserved spl	A	<2	5.0	Y	Absent	CD-CI(180),PB-CI(180)
L1428545-03X9	Tumble Vessel	A	N/A	5.0	Y	Absent	-
L1428545-04A	Glass 250ml/8oz unpreserved	A	N/A	5.0	Y	Absent	-
L1428545-04X	Plastic 120ml HNO3 preserved spl	A	<2	5.0	Y	Absent	CD-CI(180),PB-CI(180)
L1428545-04X9	Tumble Vessel	A	N/A	5.0	Y	Absent	-

\*Values in parentheses indicate holding time in days



**Project Name:** ARP NEW BEDFORD, MA  
**Project Number:** 115058/1830/4

**Lab Number:** L1428545  
**Report Date:** 12/01/14

## GLOSSARY

### Acronyms

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

### Footnotes

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

### Terms

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

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

**Report Format:** Data Usability Report



**Project Name:** ARP NEW BEDFORD, MA  
**Project Number:** 115058/1830/4

**Lab Number:** L1428545  
**Report Date:** 12/01/14

#### **Data Qualifiers**

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

**Project Name:** ARP NEW BEDFORD, MA  
**Project Number:** 115058/1830/4

**Lab Number:** L1428545  
**Report Date:** 12/01/14

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

Last revised April 15, 2014

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

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8330A/B:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,**

**SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

**EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

**SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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



# CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 11/25/14

ALPHA Job #: L1428545

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

## Client Information

Client: TRC  
Address: 650 SUFFOLK ST  
LOWELL MA  
Phone: 978-970-5600  
Fax:

Email: DSULLIVAN@TRCSOLUTIONS.COM

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:  
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.  
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

## Project Information

Project Name: ARP NEW BEDFORD MA  
Project Location: GREENWOOD ST  
Project #: 115058/1830/4  
Project Manager: DAVID SULLIVAN  
ALPHA Quote #:

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)  
Date Due: 12/2 24-48 HR Time:

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

## Billing Information

Same as Client info PO #:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

## MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)  
 Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS											TOTAL # BOTTLES	
	TCLP Pb	TCLP Cd										

### SAMPLE HANDLING

Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
Preservation  
 Lab to do  
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											Sample Specific Comments		
		Date	Time															
28545-01	SB-102-7-PS-0-3'	11/25/14	12:30	S	JF	✓												
-02	SB-101-4A/5C-PS 0-5'	11/25/14	13:30	S	JF	✓												
-03	SB-101-4D-PS 0-5'	11/25/14	14:00	S	JF	✓	✓											
-04	SB-101-4A/5C/5A-PS 0-5'	11/25/14	14:45	S	JF	✓	✓											

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type A A  
Preservative A A

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	11/25/14	<i>[Signature]</i>	11/25/14 16:52
<i>[Signature]</i>	11/25/14 19:20	<i>[Signature]</i>	11/25/14 19:20
<i>[Signature]</i>	11/25/14 20:14	<i>[Signature]</i>	11/25/14 20:14

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



## ANALYTICAL REPORT

Lab Number:	L1428627
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	David Sullivan
Phone:	(978) 656-3565
Project Name:	ARP GREENWOOD
Project Number:	115058-1830.4
Report Date:	12/02/14

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



**Project Name:** ARP GREENWOOD  
**Project Number:** 115058-1830.4

**Lab Number:** L1428627  
**Report Date:** 12/02/14

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1428627-01	SB-101-5A-PS 3-7'	SOIL	NEW BEDFORD, MA	11/26/14 10:00	11/26/14



Project Name: ARP GREENWOOD

Lab Number: L1428627

Project Number: 115058-1830.4

Report Date: 12/02/14

**MADEP MCP Response Action Analytical Report Certification**

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

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

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



**Project Name:** ARP GREENWOOD  
**Project Number:** 115058-1830.4

**Lab Number:** L1428627  
**Report Date:** 12/02/14

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

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

#### HOLD POLICY

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

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

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**Project Name:** ARP GREENWOOD  
**Project Number:** 115058-1830.4

**Lab Number:** L1428627  
**Report Date:** 12/02/14

### Case Narrative (continued)

MCP Related Narratives

Report Submission

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

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

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 12/02/14

## METALS

Project Name: ARP GREENWOOD

Lab Number: L1428627

Project Number: 115058-1830.4

Report Date: 12/02/14

## SAMPLE RESULTS

Lab ID: L1428627-01

Date Collected: 11/26/14 10:00

Client ID: SB-101-5A-PS 3-7'

Date Received: 11/26/14

Sample Location: NEW BEDFORD, MA

Field Prep: Not Specified

Matrix: Soil

TCLP/SPLP Ext. Date: 11/26/14 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Cadmium, TCLP	ND		mg/l	0.10	--	1	12/02/14 10:20	12/02/14 11:57	EPA 3015	1,6010C	JH
Lead, TCLP	ND		mg/l	0.50	--	1	12/02/14 10:20	12/02/14 11:57	EPA 3015	1,6010C	JH



Project Name: ARP GREENWOOD

Lab Number: L1428627

Project Number: 115058-1830.4

Report Date: 12/02/14

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG744866-1									
Cadmium, TCLP	ND	mg/l	0.10	--	1	12/02/14 10:20	12/02/14 11:50	1,6010C	JH
Lead, TCLP	ND	mg/l	0.50	--	1	12/02/14 10:20	12/02/14 11:50	1,6010C	JH

### Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 11/26/14 17:49

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** ARP GREENWOOD  
**Project Number:** 115058-1830.4

**Lab Number:** L1428627  
**Report Date:** 12/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG744866-2								
Cadmium, TCLP	106		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20



**Matrix Spike Analysis**  
Batch Quality Control

Project Name: ARP GREENWOOD

Lab Number: L1428627

Project Number: 115058-1830.4

Report Date: 12/02/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01    QC Batch ID: WG744866-4    QC Sample: L1428627-01    Client ID: SB-101-5A-PS 3-7'												
Cadmium, TCLP	ND	0.51	0.54	106		-	-		75-125	-		20
Lead, TCLP	ND	5.1	4.8	94		-	-		75-125	-		20



## Lab Duplicate Analysis

Batch Quality Control

Project Name: ARP GREENWOOD

Project Number: 115058-1830.4

Lab Number: L1428627

Report Date: 12/02/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 01 QC Batch ID: WG744866-3 QC Sample: L1428627-01 Client ID: SB-101-5A-PS 3-7'						
Cadmium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20

**Project Name:** ARP GREENWOOD**Lab Number:** L1428627**Project Number:** 115058-1830.4**Report Date:** 12/02/14**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1428627-01A	Glass 250ml/8oz unpreserved	A	N/A	2.2	Y	Absent	-
L1428627-01X	Plastic 120ml HNO3 preserved spl	A	<2	2.2	Y	Absent	CD-CI(180),PB-CI(180)
L1428627-01X9	Tumble Vessel	A	N/A	2.2	Y	Absent	-

\*Values in parentheses indicate holding time in days

**Project Name:** ARP GREENWOOD  
**Project Number:** 115058-1830.4

**Lab Number:** L1428627  
**Report Date:** 12/02/14

## GLOSSARY

### Acronyms

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

### Footnotes

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

### Terms

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

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



**Project Name:** ARP GREENWOOD  
**Project Number:** 115058-1830.4

**Lab Number:** L1428627  
**Report Date:** 12/02/14

#### **Data Qualifiers**

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

**Project Name:** ARP GREENWOOD  
**Project Number:** 115058-1830.4

**Lab Number:** L1428627  
**Report Date:** 12/02/14

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

Last revised April 15, 2014

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

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8330A/B:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

**EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

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



December 8, 2014

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

Project Location: ARP Greenwood St  
Client Job Number:  
Project Number: 115058/1830/6  
Laboratory Work Order Number: 14L0124

Enclosed are results of analyses for samples received by the laboratory on December 3, 2014. 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: David Sullivan

REPORT DATE: 12/8/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058/1830/6

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14L0124

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

PROJECT LOCATION: ARP Greenwood St

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-101-4D-PS 5-10	14L0124-01	Soil		SM 2540G SW-846 1311 SW-846 6010C	
SB-101-4A/5C-PS 5-10	14L0124-02	Soil		SM 2540G SW-846 1311 SW-846 6010C	
SB-101-4A/5C/5A-PS 5-10	14L0124-03	Soil		SM 2540G SW-846 1311 SW-846 6010C	
SB-101-5A-PS 7-10	14L0124-04	Soil		SM 2540G SW-846 1311 SW-846 6010C	

**CASE NARRATIVE SUMMARY**

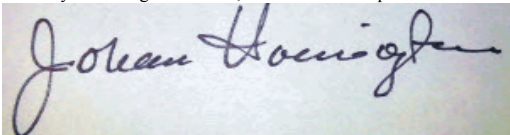
All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only Cd and Pb were requested and reported.

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

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 Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-4D-PS 5-10

Sampled: 12/2/2014 12:00

Sample ID: 14L0124-01

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	76.6		% Wt	1		SM 2540G	12/4/14	12/4/14 14:16	MRL

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

Project Location: ARP Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-4D-PS 5-10

Sampled: 12/2/2014 12:00

Sample ID: 14L0124-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	12/5/14	12/5/14 19:43	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	12/5/14	12/5/14 19:43	OP

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

Project Location: ARP Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-4A/5C-PS 5-10

Sampled: 12/2/2014 12:30

Sample ID: 14L0124-02

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	70.9		% Wt	1		SM 2540G	12/4/14	12/4/14 14:16	MRL

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

Project Location: ARP Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-4A/5C-PS 5-10

Sampled: 12/2/2014 12:30

Sample ID: 14L0124-02

Sample Matrix: Soil

**TCLP - Metals Analyses**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.012	0.010	mg/L	1		SW-846 6010C	12/5/14	12/5/14 19:48	OP

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

Project Location: ARP Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-4A/5C/5A-PS 5-10

Sampled: 12/2/2014 12:45

Sample ID: 14L0124-03

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	72.1		% Wt	1		SM 2540G	12/4/14	12/4/14 14:16	MRL



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Project Location: ARP Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-4A/5C/5A-PS 5-10

Sampled: 12/2/2014 12:45

Sample ID: 14L0124-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	12/5/14	12/5/14 20:09	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	12/5/14	12/5/14 20:09	OP

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

Project Location: ARP Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-5A-PS 7-10

Sampled: 12/2/2014 13:00

Sample ID: 14L0124-04

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	67.5		% Wt	1		SM 2540G	12/4/14	12/4/14 14:16	MRL

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

Project Location: ARP Greenwood St

Sample Description:

Work Order: 14L0124

Date Received: 12/3/2014

Field Sample #: SB-101-5A-PS 7-10

Sampled: 12/2/2014 13:00

Sample ID: 14L0124-04

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	12/5/14	12/5/14 20:15	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	12/5/14	12/5/14 20:15	OP

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
14L0124-01 [SB-101-4D-PS 5-10]	B110969	12/04/14
14L0124-02 [SB-101-4A/5C-PS 5-10]	B110969	12/04/14
14L0124-03 [SB-101-4A/5C/5A-PS 5-10]	B110969	12/04/14
14L0124-04 [SB-101-5A-PS 7-10]	B110969	12/04/14

**Prep Method: SW-846 3010A-SW-846 6010C**

Leachates were extracted on 12/4/2014 per SW-846 1311 in Batch B110966

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14L0124-01 [SB-101-4D-PS 5-10]	B111076	50.0	50.0	12/05/14
14L0124-02 [SB-101-4A/5C-PS 5-10]	B111076	50.0	50.0	12/05/14
14L0124-03 [SB-101-4A/5C/5A-PS 5-10]	B111076	50.0	50.0	12/05/14
14L0124-04 [SB-101-5A-PS 7-10]	B111076	50.0	50.0	12/05/14

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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B110969 - % Solids**

**Duplicate (B110969-DUP1)**

**Source: 14L0124-01**

Prepared & Analyzed: 12/04/14

% Solids	76.9		% Wt		76.6			0.391	20	
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**QUALITY CONTROL**

**TCLP - Metals Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B111076 - SW-846 3010A</b>										
<b>Blank (B111076-BLK1)</b>				Prepared & Analyzed: 12/05/14						
Cadmium	ND	0.0040	mg/L							
Lead	ND	0.010	mg/L							
<b>LCS (B111076-BS1)</b>				Prepared & Analyzed: 12/05/14						
Cadmium	0.538	0.0040	mg/L	0.500		108	80-120			
Lead	0.518	0.010	mg/L	0.500		104	80-120			
<b>LCS Dup (B111076-BSD1)</b>				Prepared & Analyzed: 12/05/14						
Cadmium	0.533	0.0040	mg/L	0.500		107	80-120	0.982	20	
Lead	0.508	0.010	mg/L	0.500		102	80-120	1.88	20	

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**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 6010C in Water</i>	
Cadmium	NY,CT,ME,NC,NH,VA,NJ
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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
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	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
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

Page 1 of 1

Company Name: **TRC**

Address: **650 SUFFOLK ST**

**LOWELL MA**

Attention: **DAVID SULLIVAN**

Project Location: **ARP GREENWOOD ST**

Sampled By: **JASON FIERO**

Project Proposal Provided? (for billing purposes)  
 Yes  proposal date

Rev 04.05.12  
 1460124  
 Telephone: 978-970-5600

Project # **115058/1830/c**

Client PO#

DATA DELIVERY (check all that apply)

FAX  EMAIL  WEBSITE

Fax #

Email: **DSULLIVAN@TRCSOLUTIONS.COM**

Format:  PDF  EXCEL  GIS  
 OTHER

Collection  "Enhanced Data Package"

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code
01	SB-101-4D-PS 5-10'	12/2/14	12:00		<input checked="" type="checkbox"/>	S
02	SB-101-4A/SC-PS 5-10'	"	12:30		<input checked="" type="checkbox"/>	S
03	SB-101-4A/SC/SA-PS 5-10'	"	12:45		<input checked="" type="checkbox"/>	S
04	SB-101-SA-PS 7-10'	"	13:00		<input checked="" type="checkbox"/>	S

Comments:

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

Detection Limit Requirements

Massachusetts:

Turnaround <sup>††</sup>

7-Day

10-Day

Other

RUSH <sup>†</sup>

24-Hr  48-Hr

72-Hr  4-Day

<sup>†</sup> Require lab approval

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

Relinquished by: (signature)  
*David Sullivan*

Date/Time: 12/3/14

Received by: (signature)  
*Jason Fiero*

Date/Time: 12/3/14 9:05

Relinquished by: (signature)  
*David Sullivan*

Date/Time: 12/3/14 5:05

Relinquished by: (signature)  
*David Sullivan*

Date/Time: 12/3/14 17:05

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. 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: TRC RECEIVED BY: KB DATE: 12/3/14

- 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 3.9°

- 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			8 oz amber/clear jar		4
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: _____
--	-----------------------------

Doc# 277  
 Rev. 4 August 2013

Page 2 of 2

**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.	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: KB

Date/Time: 12/3/14  
 Date/Time: 17:05

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 14L0124

Project Location: ARP Greenwood St

RTN:

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

14L0124-01 thru 14L0124-04

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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
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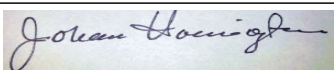
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 12/08/14

January 12, 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: 15A0163

Enclosed are results of analyses for samples received by the laboratory on January 8, 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: 1/12/2015

PURCHASE ORDER NUMBER: 76363

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0163

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
1 PEX_1 1-3	15A0163-01	Soil		SM 2540G SW-846 8082A	
1 PEX_2 1-3	15A0163-02	Soil		SM 2540G SW-846 8082A	
1 PEX_3 1-3	15A0163-03	Soil		SM 2540G 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.

SW-846 8082A

**Qualifications:****MS-21**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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

B113183-MS1, B113183-MSD1

**Aroclor-1016 [2C]**

B113183-MS1, B113183-MSD1

**Aroclor-1260**

B113183-MS1, B113183-MSD1

**Aroclor-1260 [2C]**

B113183-MS1, B113183-MSD1

**S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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

15A0163-02[1 PEX\_2 1-3]

**Decachlorobiphenyl [2C]**

15A0163-02[1 PEX\_2 1-3]

**Tetrachloro-m-xylene**

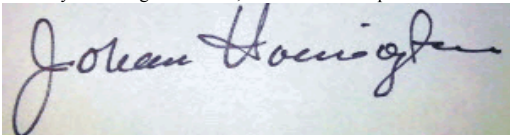
15A0163-02[1 PEX\_2 1-3]

**Tetrachloro-m-xylene [2C]**

15A0163-02[1 PEX\_2 1-3]

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: New Bedford, MA

Sample Description:

Work Order: 15A0163

Date Received: 1/8/2015

Field Sample #: 1 PEX\_1 1-3

Sampled: 1/7/2015 09:20

Sample ID: 15A0163-01

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	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1221 [1]	ND	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1232 [1]	ND	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1242 [1]	ND	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1248 [1]	ND	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1254 [1]	4.1	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1260 [2]	0.98	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1262 [1]	ND	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Aroclor-1268 [1]	ND	0.61	mg/Kg dry	25		SW-846 8082A	1/9/15	1/12/15 11:15	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					1/12/15 11:15	
Decachlorobiphenyl [2]		101	30-150					1/12/15 11:15	
Tetrachloro-m-xylene [1]		102	30-150					1/12/15 11:15	
Tetrachloro-m-xylene [2]		97.7	30-150					1/12/15 11:15	

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

Project Location: New Bedford, MA

Sample Description:

Work Order: 15A0163

Date Received: 1/8/2015

Field Sample #: 1 PEX\_1 1-3

Sampled: 1/7/2015 09:20

Sample ID: 15A0163-01

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	82.0		% Wt	1		SM 2540G	1/9/15	1/12/15 9:23	MXG

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

Project Location: New Bedford, MA

Sample Description:

Work Order: 15A0163

Date Received: 1/8/2015

Field Sample #: 1 PEX\_2 1-3

Sampled: 1/7/2015 09:30

Sample ID: 15A0163-02

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	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1254 [1]	5.7	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1260 [2]	1.2	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	1/9/15	1/12/15 11:27	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			1/12/15 11:27	
Decachlorobiphenyl [2]		*	30-150		S-01			1/12/15 11:27	
Tetrachloro-m-xylene [1]		*	30-150		S-01			1/12/15 11:27	
Tetrachloro-m-xylene [2]		*	30-150		S-01			1/12/15 11:27	

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

Project Location: New Bedford, MA

Sample Description:

Work Order: 15A0163

Date Received: 1/8/2015

Field Sample #: 1 PEX\_2 1-3

Sampled: 1/7/2015 09:30

Sample ID: 15A0163-02

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	84.9		% Wt	1		SM 2540G	1/9/15	1/12/15 9:23	MXG

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15A0163

Date Received: 1/8/2015

Field Sample #: 1 PEX\_3 1-3

Sampled: 1/7/2015 12:45

Sample ID: 15A0163-03

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	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1254 [2]	0.31	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1260 [1]	0.27	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/9/15	1/10/15 12:35	MJC
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	91.5		30-150				1/10/15 12:35		
Decachlorobiphenyl [2]	89.9		30-150				1/10/15 12:35		
Tetrachloro-m-xylene [1]	87.5		30-150				1/10/15 12:35		
Tetrachloro-m-xylene [2]	88.0		30-150				1/10/15 12:35		

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

Project Location: New Bedford, MA

Sample Description:

Work Order: 15A0163

Date Received: 1/8/2015

Field Sample #: 1 PEX\_3 1-3

Sampled: 1/7/2015 12:45

Sample ID: 15A0163-03

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	92.1		% Wt	1		SM 2540G	1/9/15	1/12/15 9:23	MXG

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

Lab Number [Field ID]	Batch	Date
15A0163-01 [1 PEX_1 1-3]	B113225	01/09/15
15A0163-02 [1 PEX_2 1-3]	B113225	01/09/15
15A0163-03 [1 PEX_3 1-3]	B113225	01/09/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0163-01 [1 PEX_1 1-3]	B113183	10.0	10.0	01/09/15
15A0163-02 [1 PEX_2 1-3]	B113183	10.4	10.0	01/09/15
15A0163-03 [1 PEX_3 1-3]	B113183	10.1	10.0	01/09/15

**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
<b>Batch B113183 - SW-846 3540C</b>										
<b>Blank (B113183-BLK1)</b>										
Prepared: 01/09/15 Analyzed: 01/10/15										
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	0.194		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.3	30-150			
<b>LCS (B113183-BS1)</b>										
Prepared: 01/09/15 Analyzed: 01/10/15										
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		96.6	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		99.6	40-140			
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		108	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Surrogate: Decachlorobiphenyl	0.209		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.2	30-150			
<b>LCS Dup (B113183-BSD1)</b>										
Prepared: 01/09/15 Analyzed: 01/10/15										
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		99.1	40-140	2.61	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		103	40-140	2.88	30	
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		110	40-140	1.72	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	1.92	30	
Surrogate: Decachlorobiphenyl	0.207		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.7	30-150			



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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
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Batch B113183 - SW-846 3540C

Matrix Spike (B113183-MS1)

Source: 15A0163-01

Prepared: 01/09/15 Analyzed: 01/10/15

Aroclor-1016	0.38	0.12	mg/Kg dry	0.244	ND	158	* 40-140			MS-21
Aroclor-1016 [2C]	0.71	0.12	mg/Kg dry	0.244	ND	290	* 40-140			MS-21
Aroclor-1260	1.4	0.12	mg/Kg dry	0.244	0.79	232	* 40-140			MS-21
Aroclor-1260 [2C]	1.5	0.12	mg/Kg dry	0.244	0.98	229	* 40-140			MS-21
Surrogate: Decachlorobiphenyl	0.197		mg/Kg dry	0.244		80.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg dry	0.244		84.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg dry	0.244		91.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.225		mg/Kg dry	0.244		92.3	30-150			

Matrix Spike Dup (B113183-MSD1)

Source: 15A0163-01

Prepared: 01/09/15 Analyzed: 01/10/15

Aroclor-1016	0.44	0.12	mg/Kg dry	0.244	ND	179	* 40-140	12.9	50	MS-21
Aroclor-1016 [2C]	0.80	0.12	mg/Kg dry	0.244	ND	326	* 40-140	11.7	50	MS-21
Aroclor-1260	1.5	0.12	mg/Kg dry	0.244	0.79	293	* 40-140	10.4	50	MS-21
Aroclor-1260 [2C]	1.7	0.12	mg/Kg dry	0.244	0.98	302	* 40-140	11.0	50	MS-21
Surrogate: Decachlorobiphenyl	0.211		mg/Kg dry	0.244		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.217		mg/Kg dry	0.244		88.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.232		mg/Kg dry	0.244		95.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.231		mg/Kg dry	0.244		94.7	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

1 PEX\_1\_1-3

*SW-846 8082A*

Lab Sample ID: 15A0163-01 Date(s) Analyzed: 01/12/2015 01/12/2015

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	4.1	
	2	0.00	-0.03	0.03	3.9	4.5
Aroclor-1260	1	0.00	-0.03	0.03	0.79	
	2	0.00	-0.03	0.03	0.98	21.2

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

1.PEX\_2\_1-3

Lab Sample ID: 15A0163-02 Date(s) Analyzed: 01/12/2015 01/12/2015

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	5.7	
	2	0.00	-0.03	0.03	5.6	0.9

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

**1.PEX\_3\_1-3**

Lab Sample ID: 15A0163-03 Date(s) Analyzed: 01/10/2015 01/10/2015

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	0.28	
	2	0.00	-0.03	0.03	0.31	9.5
Aroclor-1260	1	0.00	-0.03	0.03	0.27	
	2	0.00	-0.03	0.03	0.25	8.1







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

**Matrix Spike Dup**

Lab Sample ID:                     B113183-MSD1                                          Date(s) Analyzed:           01/10/2015                     01/10/2015          

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	-0.03	0.03	0.44	
	2	0.00	-0.03	0.03	0.80	59
Aroclor-1260	1	0.00	-0.03	0.03	1.5	
	2	0.00	-0.03	0.03	1.7	12



**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.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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

Page 7 of 8

Company Name: **TRC**  
 Address: **650 SUFFOLK ST. LOWELL MA.**  
 Attention: **DAVID SULLIVAN**  
 Project Location: **NEW BEDFORD MA.**  
 Sampled By: **JASON FIERO**

Telephone: **978 970 5600**  
 Project # **115053**  
 Client PO# **76363**  
 DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE  
 Fax #  
 Email:  
 Format:  PDF  EXCEL  GIS  
 OTHER  
 "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)  
 yes  proposal date

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Conc Units	# of Containers	** Preservation	*** Container Code	ANALYSIS REQUESTED
		Beginning Date/Time	Ending Date/Time							
01	IPEX-1 1-3'	1/7/15	9:20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	1	Iced	A	
02	IPEX-2 1-3'	"	9:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	1	Iced	A	
03	IPEX-3 1-3'	"	12:45	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	1	Iced	A	

Comments: 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

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

Detection Limit Requirements  
 Massachusetts: MCP  
 Connecticut: \_\_\_\_\_  
 Other: \_\_\_\_\_

Turnaround #  
 7-Day  
 10-Day  
 Other  
 RUSH †  
 24-Hr 148-Hr  
 72-Hr 1830 † Require lab approval

Signature/Date/Time:  
 Jason C. Fiero 1/8/15  
 David Sullivan 1/8/15 09:45  
 Jason Fiero 1/8/15 18:26  
 Jason Fiero 1/8/15 18:30



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. 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: TRC RECEIVED BY: JDL DATE: 1/8/15

- 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: IPEX-3 arrived broken.
- 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 2.5

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			8 oz amber/clear jar	3
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: IPEX-3 was transferred to a new jar. Original jar arrived broken.

40 mL vials: # HCl \_\_\_\_\_ # 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.	F	
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	

Who notified of False statements?  
 Log-In Technician Initials: JDL

Date/Time: 1/8/15 1830

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15A0163

Project Location: New Bedford, MA

RTN:

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

15A0163-01 thru 15A0163-03

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

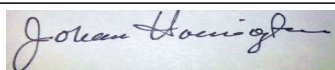
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 01/12/15

January 14, 2015

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

Project Location: ARP New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0235

Enclosed are results of analyses for samples received by the laboratory on January 12, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley  
Project Manager

## Table of Contents

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

REPORT DATE: 1/14/2015

PURCHASE ORDER NUMBER: 76363

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0235

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IPEX_8 (1-3ft)	15A0235-01	Soil		SM 2540G 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.

SW-846 8082A

**Qualifications:**

P-02

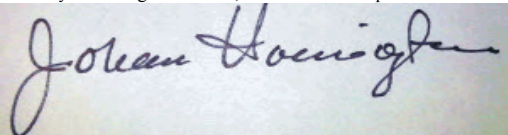
Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

**Analyte & Samples(s) Qualified:****Aroclor-1248 [2C]**

15A0235-01[1PEX\_8 (1-3ft)]

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

Sample Description:

Work Order: 15A0235

Date Received: 1/12/2015

Field Sample #: IPEX\_8 (1-3ft)

Sampled: 1/9/2015 09:55

Sample ID: 15A0235-01

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	1/12/15	1/14/15 4:10	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Aroclor-1248 [2]	0.15	0.10	mg/Kg dry	5	P-02	SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Aroclor-1254 [2]	0.67	0.10	mg/Kg dry	5		SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/12/15	1/14/15 4:10	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		112	30-150					1/14/15 4:10	
Decachlorobiphenyl [2]		107	30-150					1/14/15 4:10	
Tetrachloro-m-xylene [1]		101	30-150					1/14/15 4:10	
Tetrachloro-m-xylene [2]		96.2	30-150					1/14/15 4:10	

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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0235

Date Received: 1/12/2015

Field Sample #: IPEX\_8 (1-3ft)

Sampled: 1/9/2015 09:55

Sample ID: 15A0235-01

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	96.2		% Wt	1		SM 2540G	1/13/15	1/14/15 9:34	MRL

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

Lab Number [Field ID]	Batch	Date
15A0235-01 [1PEX_8 (1-3ft)]	B113373	01/13/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0235-01 [1PEX_8 (1-3ft)]	B113297	10.2	10.0	01/12/15

**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
<b>Batch B113297 - SW-846 3540C</b>										
<b>Blank (B113297-BLK1)</b>										
Prepared: 01/12/15 Analyzed: 01/13/15										
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	0.191		mg/Kg wet	0.200		95.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.215		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		90.1	30-150			
<b>LCS (B113297-BS1)</b>										
Prepared: 01/12/15 Analyzed: 01/13/15										
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		113	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		99.6	40-140			
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		117	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Surrogate: Decachlorobiphenyl	0.227		mg/Kg wet	0.200		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg wet	0.200		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.5	30-150			
<b>LCS Dup (B113297-BSD1)</b>										
Prepared: 01/12/15 Analyzed: 01/13/15										
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		117	40-140	3.62	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		103	40-140	3.81	30	
Aroclor-1260	0.24	0.10	mg/Kg wet	0.200		122	40-140	3.98	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140	4.36	30	
Surrogate: Decachlorobiphenyl	0.226		mg/Kg wet	0.200		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		90.1	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

1PEX\_8 (1-3ft)

*SW-846 8082A*

Lab Sample ID: 15A0235-01 Date(s) Analyzed: 01/14/2015 01/14/2015

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-1248	1	0.00	-0.03	0.03	0.23	
	2	0.00	-0.03	0.03	0.15	42.9
Aroclor-1254	1	0.00	-0.03	0.03	0.63	
	2	0.00	-0.03	0.03	0.67	5.8







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**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.
- P-02 Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

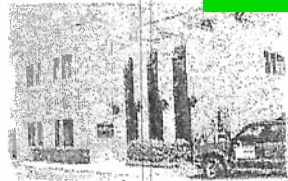
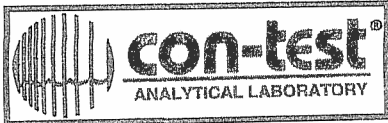
Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,NJ
Aroclor-1242	CT,NH,NY,ME,NC,VA,NJ
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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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: TRC RECEIVED BY: KKM DATE: 11/2/15

- 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 3.3

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		8 oz <u>amber</u> /clear jar	1
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:

KKM

Date/Time:

Date/Time:

11/2/15  
15:00

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15A0235

Project Location: ARP New Bedford

RTN:

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

15A0235-01

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

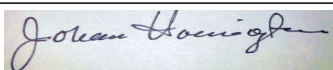
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 01/14/15

January 15, 2015

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

Project Location: ARP New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0295

Enclosed are results of analyses for samples received by the laboratory on January 13, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Meghan E. Kelley  
Project Manager



## Table of Contents

Sample Summary	3
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Polychlorinated Biphenyls with 3540 Soxhlet Extraction	8
B113395	8
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TRC Environmental Corporation - Lowell  
650 Suffolk Street  
Lowell, MA 01852  
ATTN: David Sullivan

REPORT DATE: 1/15/2015

PURCHASE ORDER NUMBER: 76363

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0295

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IPEX_4 (3-5ft)	15A0295-02	Soil		SM 2540G 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.

SW-846 8082A

**Qualifications:**

O-32

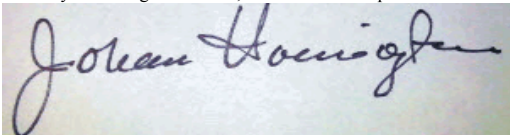
A dilution was performed as part of the standard analytical procedure.

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

15A0295-02[1PEX\_4 (3-5ft)]

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 background.

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

Sample Description:

Work Order: 15A0295

Date Received: 1/13/2015

Field Sample #: IPEX\_4 (3-5ft)

Sampled: 1/12/2015 12:30

Sample ID: 15A0295-02

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	1/13/15	1/14/15 22:27	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/13/15	1/14/15 22:27	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.8	30-150					1/14/15 22:27	
Decachlorobiphenyl [2]		105	30-150					1/14/15 22:27	
Tetrachloro-m-xylene [1]		85.7	30-150					1/14/15 22:27	
Tetrachloro-m-xylene [2]		90.3	30-150					1/14/15 22:27	

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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0295

Date Received: 1/13/2015

Field Sample #: IPEX\_4 (3-5ft)

Sampled: 1/12/2015 12:30

Sample ID: 15A0295-02

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	94.5		% Wt	1		SM 2540G	1/14/15	1/15/15 8:45	MRL

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
15A0295-02 [1PEX_4 (3-5ft)]	B113411	01/14/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0295-02 [1PEX_4 (3-5ft)]	B113395	10.2	10.0	01/13/15

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
<b>Batch B113395 - SW-846 3540C</b>										
<b>Blank (B113395-BLK1)</b>										
Prepared: 01/13/15 Analyzed: 01/14/15										
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	0.177		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		85.0	30-150			
<b>LCS (B113395-BS1)</b>										
Prepared: 01/13/15 Analyzed: 01/14/15										
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		94.2	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		95.2	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		95.7	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		98.6	40-140			
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.200		mg/Kg wet	0.200		99.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.8	30-150			
<b>LCS Dup (B113395-BSD1)</b>										
Prepared: 01/13/15 Analyzed: 01/14/15										
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		95.6	40-140	1.56	30	
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		97.3	40-140	2.21	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		99.4	40-140	3.83	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		103	40-140	4.42	30	
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		82.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.8	30-150			







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**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
<i>SW-846 8082A in Soil</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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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: TRC RECEIVED BY: JDL DATE: 1/13/15

- 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			8 oz amber/clear jar	2
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?  
 Log-In Technician Initials: JDL

 Date/Time:  
 Date/Time: 1/13/15 1515

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15A0295

Project Location: ARP New Bedford

RTN:

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

15A0295-02

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

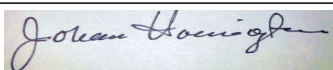
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 01/15/15

January 16, 2015

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

Project Location: 101 Greenwood ARP New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0326

Enclosed are results of analyses for samples received by the laboratory on January 14, 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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TRC Environmental Corporation - Lowell  
 650 Suffolk Street  
 Lowell, MA 01852  
 ATTN: David Sullivan

REPORT DATE: 1/16/2015

PURCHASE ORDER NUMBER: 76363

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0326

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

PROJECT LOCATION: 101 Greenwood ARP New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IPEX_5 4.5-6	15A0326-01	Soil		SM 2540G SW-846 8082A	
IPEX_6 4-6	15A0326-02	Soil		SM 2540G SW-846 8082A	
IPEX_6 7-9	15A0326-03	Soil		SM 2540G SW-846 8082A	
IPEX_7 5-7	15A0326-04	Soil		SM 2540G 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.

SW-846 8082A

**Qualifications:****O-32**

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

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

15A0326-01[IPEX\_5 4.5-6]

**S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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

15A0326-04[IPEX\_7 5-7]

**Decachlorobiphenyl [2C]**

15A0326-04[IPEX\_7 5-7]

**Tetrachloro-m-xylene**

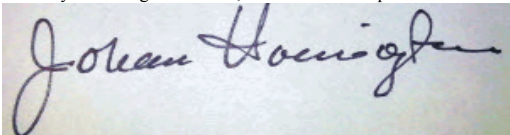
15A0326-04[IPEX\_7 5-7]

**Tetrachloro-m-xylene [2C]**

15A0326-04[IPEX\_7 5-7]

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: 101 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_5 4.5-6

Sampled: 1/13/2015 09:30

Sample ID: 15A0326-01

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	1/14/15	1/15/15 22:54	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 22:54	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		111	30-150					1/15/15 22:54	
Decachlorobiphenyl [2]		116	30-150					1/15/15 22:54	
Tetrachloro-m-xylene [1]		94.2	30-150					1/15/15 22:54	
Tetrachloro-m-xylene [2]		94.0	30-150					1/15/15 22:54	

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Project Location: 101 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_5 4.5-6

Sampled: 1/13/2015 09:30

Sample ID: 15A0326-01

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	97.0		% Wt	1		SM 2540G	1/15/15	1/16/15 10:02	MRL

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

Project Location: 101 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_6 4-6

Sampled: 1/13/2015 09:40

Sample ID: 15A0326-02

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	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1254 [1]	0.15	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1260 [1]	0.18	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/14/15	1/15/15 23:11	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					1/15/15 23:11	
Decachlorobiphenyl [2]		112	30-150					1/15/15 23:11	
Tetrachloro-m-xylene [1]		101	30-150					1/15/15 23:11	
Tetrachloro-m-xylene [2]		101	30-150					1/15/15 23:11	

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Project Location: 101 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_6 4-6

Sampled: 1/13/2015 09:40

Sample ID: 15A0326-02

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	95.0		% Wt	1		SM 2540G	1/15/15	1/16/15 10:02	MRL

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Project Location: 101 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_6 7-9

Sampled: 1/13/2015 09:50

Sample ID: 15A0326-03

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	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1221 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1232 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1242 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1248 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1254 [2]	3.9	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1260 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1262 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Aroclor-1268 [1]	ND	0.67	mg/Kg dry	25		SW-846 8082A	1/14/15	1/16/15 5:51	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		136	30-150					1/16/15 5:51	
Decachlorobiphenyl [2]		148	30-150					1/16/15 5:51	
Tetrachloro-m-xylene [1]		110	30-150					1/16/15 5:51	
Tetrachloro-m-xylene [2]		104	30-150					1/16/15 5:51	



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

Project Location: 101 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_6 7-9

Sampled: 1/13/2015 09:50

Sample ID: 15A0326-03

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	74.2		% Wt	1		SM 2540G	1/15/15	1/16/15 10:02	MRL

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Project Location: 101 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_7 5-7

Sampled: 1/13/2015 10:50

Sample ID: 15A0326-04

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	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1221 [1]	ND	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1232 [1]	ND	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1242 [1]	ND	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1248 [1]	ND	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1254 [1]	18	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1260 [1]	ND	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1262 [1]	ND	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Aroclor-1268 [1]	ND	2.7	mg/Kg dry	100		SW-846 8082A	1/14/15	1/16/15 6:03	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			1/16/15 6:03	
Decachlorobiphenyl [2]		*	30-150		S-01			1/16/15 6:03	
Tetrachloro-m-xylene [1]		*	30-150		S-01			1/16/15 6:03	
Tetrachloro-m-xylene [2]		*	30-150		S-01			1/16/15 6:03	

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

Project Location: 101 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0326

Date Received: 1/14/2015

Field Sample #: IPEX\_7 5-7

Sampled: 1/13/2015 10:50

Sample ID: 15A0326-04

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	74.0		% Wt	1		SM 2540G	1/15/15	1/16/15 10:02	MRL

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
15A0326-01 [IPEX_5 4.5-6]	B113502	01/15/15
15A0326-02 [IPEX_6 4-6]	B113502	01/15/15
15A0326-03 [IPEX_6 7-9]	B113502	01/15/15
15A0326-04 [IPEX_7 5-7]	B113502	01/15/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0326-01 [IPEX_5 4.5-6]	B113477	10.0	10.0	01/14/15
15A0326-02 [IPEX_6 4-6]	B113477	10.0	10.0	01/14/15
15A0326-03 [IPEX_6 7-9]	B113477	10.0	10.0	01/14/15
15A0326-04 [IPEX_7 5-7]	B113477	10.1	10.0	01/14/15

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
<b>Batch B113477 - SW-846 3540C</b>										
<b>Blank (B113477-BLK1)</b>										
Prepared: 01/14/15 Analyzed: 01/15/15										
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	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.233		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.180		mg/Kg wet	0.200		90.1	30-150			
<b>LCS (B113477-BS1)</b>										
Prepared: 01/14/15 Analyzed: 01/15/15										
Aroclor-1016	0.24	0.10	mg/Kg wet	0.200		118	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		120	40-140			
Aroclor-1260	0.26	0.10	mg/Kg wet	0.200		131	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		121	40-140			
Surrogate: Decachlorobiphenyl	0.243		mg/Kg wet	0.200		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.254		mg/Kg wet	0.200		127	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.208		mg/Kg wet	0.200		104	30-150			
<b>LCS Dup (B113477-BSD1)</b>										
Prepared: 01/14/15 Analyzed: 01/15/15										
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		115	40-140	2.57	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		114	40-140	4.69	30	
Aroclor-1260	0.25	0.10	mg/Kg wet	0.200		123	40-140	6.52	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg wet	0.200		116	40-140	4.29	30	
Surrogate: Decachlorobiphenyl	0.232		mg/Kg wet	0.200		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.240		mg/Kg wet	0.200		120	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg wet	0.200		97.2	30-150			

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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
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Batch B113477 - SW-846 3540C

Matrix Spike (B113477-MS1)

Source: 15A0326-01

Prepared: 01/14/15 Analyzed: 01/16/15

Aroclor-1016	0.23	0.10	mg/Kg dry	0.206	ND	112	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.206	ND	112	40-140			
Aroclor-1260	0.26	0.10	mg/Kg dry	0.206	ND	125	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg dry	0.206	ND	116	40-140			
Surrogate: Decachlorobiphenyl	0.234		mg/Kg dry	0.206		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.245		mg/Kg dry	0.206		119	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.206		98.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg dry	0.206		97.8	30-150			

Matrix Spike Dup (B113477-MSD1)

Source: 15A0326-01

Prepared: 01/14/15 Analyzed: 01/16/15

Aroclor-1016	0.20	0.10	mg/Kg dry	0.206	ND	95.6	40-140	15.7	50	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg dry	0.206	ND	100	40-140	11.3	50	
Aroclor-1260	0.25	0.10	mg/Kg dry	0.206	ND	120	40-140	4.18	50	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg dry	0.206	ND	112	40-140	3.40	50	
Surrogate: Decachlorobiphenyl	0.230		mg/Kg dry	0.206		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.242		mg/Kg dry	0.206		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg dry	0.206		78.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg dry	0.206		78.1	30-150			

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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 B113502 - % Solids**

**Duplicate (B113502-DUP5)**

**Source: 15A0326-01**

Prepared: 01/15/15 Analyzed: 01/16/15

% Solids	97.6		% Wt		97.0			0.617	20	
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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

IPEX-6 4-6

*SW-846 8082A*

Lab Sample ID: 15A0326-02 Date(s) Analyzed: 01/15/2015 01/15/2015

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	-0.03	0.03	0.15	
	2	0.00	-0.03	0.03	0.11	28.8
Aroclor-1260	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.17	5.7



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

**IPEX-6 7-9**

Lab Sample ID: 15A0326-03 Date(s) Analyzed: 01/16/2015 01/16/2015

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	3.7	
	2	0.00	-0.03	0.03	3.9	4.7

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

**IPEX-7 5-7**

Lab Sample ID: 15A0326-04 Date(s) Analyzed: 01/16/2015 01/16/2015

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	18	
	2	0.00	-0.03	0.03	18	2.7





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

**Matrix Spike**

Lab Sample ID:                   B113477-MS1                                        Date(s) Analyzed:           01/16/2015                     01/16/2015          

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	-0.03	0.03	0.23	
	2	0.00	-0.03	0.03	0.23	0
Aroclor-1260	1	0.00	-0.03	0.03	0.26	
	2	0.00	-0.03	0.03	0.24	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.
- O-32 A dilution was performed as part of the standard analytical procedure.
  - S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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





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 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**  
 Address: **650 SUFFOLK ST. LOWELL MA**  
 Attention: **DAVID SULLIVAN**  
 Project Location: **101 GREENWOOD AVE NEW BEDFORD**  
 Sampled By: **JASON FIERO**

Telephone: **978-970-5600**  
**617-462-8090**  
 Project # **115058**  
 Client PO# **76363**

DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE

Fax #  
 Email: **DAVID@TRC.COM**  
 Format:  PDF  EXCEL  GIS  
 OTHER

Project Proposal Provided? (for billing purposes)  
 yes  proposal date

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix Conc Data
		Beginning Date/Time	Ending Date/Time			
01	IPEX-5 4.5-6'	1/13/15	9:30	✓	✓	S
02	IPEX-6 4-6'	"	9:40	✓	✓	S
03	IPEX-6 7-9'	"	9:50	✓	✓	S
04	IPEX-7 5-7'	"	10:50	✓	✓	S

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

### Detection Limit Requirements

Massachusetts: MCP  
 Connecticut: \_\_\_\_\_  
 Other: \_\_\_\_\_

### Turnaround

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

Relinquished by: (signature) <i>Jason Fiero</i>	Date/Time: 1/14/15
Received by: (signature) <i>Jason Fiero</i>	Date/Time: 1/14/15 11:03
Relinquished by: (signature) <i>Jason Fiero</i>	Date/Time: 1/14/15 11:10
Received by: (signature) <i>Jason Fiero</i>	Date/Time: 1/14/15 15:25

### 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**

### ANALYSIS REQUESTED

# of Containers	** Preservation	*** Container Code	Dissolved Metals	*** Cont. Code:	** Preservation	* Matrix Code:
1			<input type="radio"/> Field Filtered <input type="radio"/> Lab to Filter	A=amber glass G=glass P=plastic ST=sterile V=vial S=summa can T=tedlar bag O=Other	I=iced H=HCL M=Methanol N=Nitric Acid S=Sulfuric Acid B=Sodium bisulfate X=Na hydroxide T=Na thiosulfate O=Other	GW= groundwater WW= wastewater DW= drinking water A= air S= soil/solid SL= sludge O= other



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.  
 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: TRC RECEIVED BY: JDL DATE: 1/14/15

- 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

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		8 oz amber/clear jar	4
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: 1/14/15 1525

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory Project #: 15A0326  
 Project Location: 101 Greenwood ARP New Bedford RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]  
 15A0326-01 thru 15A0326-04

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

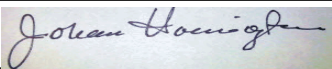
<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
----------	---	--

**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.**

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

<sup>1</sup> 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: 01/16/15

January 20, 2015

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

Project Location: ARP New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0470

Enclosed are results of analyses for samples received by the laboratory on January 16, 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: David Sullivan

REPORT DATE: 1/20/2015

PURCHASE ORDER NUMBER: 62443

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0470

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
2PEX_1 (5-7)	15A0470-01	Soil		SM 2540G SW-846 8082A	
DUP-1	15A0470-02	Soil		SM 2540G 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.

**SW-846 8082A**

**Qualifications:**

**O-32**

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

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

15A0470-01[2PEX\_1 (5-7)]

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.



Daren J. Damboragian  
Laboratory Manager



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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0470

Date Received: 1/16/2015

Field Sample #: 2PEX\_1 (5-7')

Sampled: 1/15/2015 09:10

Sample ID: 15A0470-01

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	1/19/15	1/20/15 10:57	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 10:57	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					1/20/15 10:57	
Decachlorobiphenyl [2]		108	30-150					1/20/15 10:57	
Tetrachloro-m-xylene [1]		100	30-150					1/20/15 10:57	
Tetrachloro-m-xylene [2]		101	30-150					1/20/15 10:57	

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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0470

Date Received: 1/16/2015

Field Sample #: 2PEX\_1 (5-7')

Sampled: 1/15/2015 09:10

Sample ID: 15A0470-01

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	95.6		% Wt	1		SM 2540G	1/19/15	1/19/15 13:58	MRL

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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0470

Date Received: 1/16/2015

Field Sample #: DUP-1

Sampled: 1/15/2015 00:00

Sample ID: 15A0470-02

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	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1254 [1]	0.24	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/19/15	1/20/15 11:09	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		120	30-150					1/20/15 11:09	
Decachlorobiphenyl [2]		129	30-150					1/20/15 11:09	
Tetrachloro-m-xylene [1]		112	30-150					1/20/15 11:09	
Tetrachloro-m-xylene [2]		114	30-150					1/20/15 11:09	

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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0470

Date Received: 1/16/2015

Field Sample #: DUP-1

Sampled: 1/15/2015 00:00

Sample ID: 15A0470-02

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	94.9		% Wt	1		SM 2540G	1/19/15	1/19/15 13:58	MRL

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
15A0470-01 [2PEX_1 (5-7)]	B113670	01/19/15
15A0470-02 [DUP-1]	B113670	01/19/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0470-01 [2PEX_1 (5-7)]	B113684	10.0	10.0	01/19/15
15A0470-02 [DUP-1]	B113684	10.0	10.0	01/19/15

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
<b>Batch B113684 - SW-846 3540C</b>										
<b>Blank (B113684-BLK1)</b>										
Prepared: 01/19/15 Analyzed: 01/20/15										
Aroclor-1016	ND	0.019	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1221	ND	0.019	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1232	ND	0.019	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1242	ND	0.019	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1248	ND	0.019	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1254	ND	0.019	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1260	ND	0.019	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1262	ND	0.019	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1268	ND	0.019	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.019	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.194		mg/Kg wet	0.192		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.228		mg/Kg wet	0.192		118	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.192		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.195		mg/Kg wet	0.192		101	30-150			
<b>LCS (B113684-BS1)</b>										
Prepared: 01/19/15 Analyzed: 01/20/15										
Aroclor-1016	0.23	0.099	mg/Kg wet	0.198		117	40-140			
Aroclor-1016 [2C]	0.23	0.099	mg/Kg wet	0.198		118	40-140			
Aroclor-1260	0.25	0.099	mg/Kg wet	0.198		128	40-140			
Aroclor-1260 [2C]	0.24	0.099	mg/Kg wet	0.198		123	40-140			
Surrogate: Decachlorobiphenyl	0.239		mg/Kg wet	0.198		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.260		mg/Kg wet	0.198		131	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg wet	0.198		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.218		mg/Kg wet	0.198		110	30-150			
<b>LCS Dup (B113684-BSD1)</b>										
Prepared: 01/19/15 Analyzed: 01/20/15										
Aroclor-1016	0.22	0.099	mg/Kg wet	0.198		112	40-140	3.87	30	
Aroclor-1016 [2C]	0.23	0.099	mg/Kg wet	0.198		115	40-140	2.12	30	
Aroclor-1260	0.24	0.099	mg/Kg wet	0.198		119	40-140	6.97	30	
Aroclor-1260 [2C]	0.23	0.099	mg/Kg wet	0.198		115	40-140	6.39	30	
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.198		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.224		mg/Kg wet	0.198		113	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.198		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.204		mg/Kg wet	0.198		103	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

DUP-1

*SW-846 8082A*

Lab Sample ID: 15A0470-02 Date(s) Analyzed: 01/20/2015 01/20/2015

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	0.24	
	2	0.00	-0.03	0.03	0.22	9.9





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

LCS Dup

Lab Sample ID: B113684-BSD1 Date(s) Analyzed: 01/20/2015 01/20/2015

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	-0.03	0.03	0.22	
	2	0.00	-0.03	0.03	0.23	4
Aroclor-1260	1	0.00	-0.03	0.03	0.24	
	2	0.00	-0.03	0.03	0.23	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.
- O-32 A dilution was performed as part of the standard analytical procedure.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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: TRC RECEIVED BY: JDL DATE: 1/16/15

- 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 3.7

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		<b>8 oz amber/clear jar</b>	<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		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: JDLDate/Time: 1/16/15 1530  
Date/Time:



January 23, 2015

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

Project Location: 102 Greenwood ARP New Bedford, MA  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0471

Enclosed are results of analyses for samples received by the laboratory on January 16, 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: David Sullivan

REPORT DATE: 1/23/2015

PURCHASE ORDER NUMBER: 62443

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0471

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

PROJECT LOCATION: 102 Greenwood ARP New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
VPEX_1 (5-6)	15A0471-01	Soil		SM 2540G SW-846 8260C	
VPEX_2 (6-7)	15A0471-02	Soil		SM 2540G SW-846 8260C	
VPEX_3 (6-7)	15A0471-03	Soil		SM 2540G SW-846 8260C	
VPEX_4 (6-7)	15A0471-04	Soil		SM 2540G SW-846 8260C	
VPEX_5 (5-6)	15A0471-05	Soil		SM 2540G SW-846 8260C	
VPEX_B1 (7)	15A0471-06	Soil		SM 2540G SW-846 8260C	
VPEX_B2 (7)	15A0471-07	Soil		SM 2540G SW-846 8260C	
DUP-1	15A0471-08	Soil		SM 2540G SW-846 8260C	
Trip Blank	15A0471-09	Soil		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.

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

15A0471-06[VPEX\_B1 (7)], B113862-BLK1, B113862-BS1, B113862-BSD1

**Bromomethane**

15A0471-05[VPEX\_5 (5-6)], B113727-BLK1, B113727-BS1, B113727-BSD1

**Carbon Disulfide**

15A0471-05[VPEX\_5 (5-6)], B113727-BLK1, B113727-BS1, B113727-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:****Acetone**

B113795-BS1

**Bromochloromethane**

B113795-BSD1

**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:****Bromomethane**

B113862-BS1

**Methylene Chloride**

B113727-BS1

**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:****1,4-Dioxane**

B113727-BS1, B113727-BSD1

**Acetone**

B113862-BS1, B113862-BSD1

**Bromomethane**

B113722-BS1, B113722-BSD1, B113795-BS1, B113795-BSD1, B113862-BS1

**Chloromethane**

B113722-BSD1, B113727-BS1, B113727-BSD1, B113862-BS1

**Dichlorodifluoromethane (Freon 12)**

B113727-BS1, B113727-BSD1, B113862-BS1, B113862-BSD1

**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:****Bromomethane**

15A0471-06[VPEX\_B1 (7)], B113862-BLK1, B113862-BS1, B113862-BSD1

**Chloromethane**

15A0471-01[VPEX\_1 (5-6)], 15A0471-02[VPEX\_2 (6-7)], 15A0471-03[VPEX\_3 (6-7)], 15A0471-04[VPEX\_4 (6-7)], B113722-BLK1, B113722-BS1, B113722-BSD1

**Methylene Chloride**

15A0471-05[VPEX\_5 (5-6)], B113727-BLK1, B113727-BS1, B113727-BSD1

**Tetrahydrofuran**

15A0471-06[VPEX\_B1 (7)], B113862-BLK1, B113862-BS1, B113862-BSD1

**RL-07**

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

**Analyte & Samples(s) Qualified:****1,2,3-Trichlorobenzene**

15A0471-05[VPEX\_5 (5-6')]

**1,2,4-Trichlorobenzene**

15A0471-05[VPEX\_5 (5-6')]

**1,2-Dibromo-3-chloropropane (DBP)**

15A0471-05[VPEX\_5 (5-6')]

**Bromoform**

15A0471-05[VPEX\_5 (5-6')]

**Carbon Disulfide**

15A0471-05[VPEX\_5 (5-6')]

**Methylene Chloride**

15A0471-05[VPEX\_5 (5-6')]

**Naphthalene**

15A0471-05[VPEX\_5 (5-6')]

**S-03**

Surrogate recovery outside of control limits due to suspected sample matrix interference.

**Analyte & Samples(s) Qualified:****Toluene-d8**

15A0471-07[VPEX\_B2 (7')]

**S-16**

Surrogate recovery is outside of control limits. Reanalysis is not required if % solids is <75% and recovery is >10%.

**Analyte & Samples(s) Qualified:****Toluene-d8**

15A0471-06[VPEX\_B1 (7')]

**S-19**

Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.

**Analyte & Samples(s) Qualified:****1,2-Dichloroethane-d4**

15A0471-07[VPEX\_B2 (7')], 15A0471-07RE1[VPEX\_B2 (7')]

**4-Bromofluorobenzene**

15A0471-07[VPEX\_B2 (7')], 15A0471-07RE1[VPEX\_B2 (7')]

**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:****1,1,1,2-Tetrachloroethane**

15A0471-06[VPEX\_B1 (7')], B113862-BLK1, B113862-BS1, B113862-BSD1

**1,2,3-Trichlorobenzene**

15A0471-06[VPEX\_B1 (7')], B113862-BLK1, B113862-BS1, B113862-BSD1

**1,2-Dibromo-3-chloropropane (DBP)**

15A0471-06[VPEX\_B1 (7')], B113862-BLK1, B113862-BS1, B113862-BSD1

**Acetone**

15A0471-01[VPEX\_1 (5-6')], 15A0471-02[VPEX\_2 (6-7')], 15A0471-03[VPEX\_3 (6-7')], 15A0471-04[VPEX\_4 (6-7')], B113722-BLK1, B113722-BS1, B113722-BSD1

**Bromoform**

15A0471-06[VPEX\_B1 (7')], B113862-BLK1, B113862-BS1, B113862-BSD1

**Bromomethane**

15A0471-05[VPEX\_5 (5-6')], B113727-BLK1, B113727-BS1, B113727-BSD1

**Carbon Tetrachloride**

15A0471-06[VPEX\_B1 (7')], B113862-BLK1, B113862-BS1, B113862-BSD1

**Chlorodibromomethane**

15A0471-06[VPEX\_B1 (7')], B113862-BLK1, B113862-BS1, B113862-BSD1

**Naphthalene**

15A0471-06[VPEX\_B1 (7')], B113862-BLK1, B113862-BS1, B113862-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**

15A0471-01[VPEX\_1 (5-6)], 15A0471-02[VPEX\_2 (6-7)], 15A0471-03[VPEX\_3 (6-7)], 15A0471-04[VPEX\_4 (6-7)], 15A0471-05[VPEX\_5 (5-6)], 15A0471-06[VPEX\_B1 (7)], 15A0471-07[VPEX\_B2 (7)], 15A0471-08[DUP-1], 15A0471-09[Trip Blank], B113722-BLK1, B113722-BS1, B113722-BSD1, B113727-BLK1, B113727-BS1, B113727-BSD1, B113795-BLK1, B113795-BS1, B113795-BSD1, B113862-BLK1, B113862-BS1, B113862-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:****1,4-Dioxane**

B113727-BS1, B113727-BSD1

**Acetone**

B113862-BS1, B113862-BSD1

**Bromomethane**

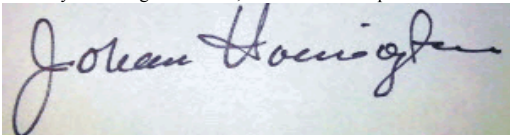
B113722-BS1, B113722-BSD1

**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: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_1 (5-6')

Sampled: 1/16/2015 09:40

Sample ID: 15A0471-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.056	mg/Kg dry	1	V-05	SW-846 8260C	1/19/15	1/19/15 22:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Bromoform	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Bromomethane	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Carbon Disulfide	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Chlorodibromomethane	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Chloroethane	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Chloromethane	ND	0.0056	mg/Kg dry	1	R-05	SW-846 8260C	1/19/15	1/19/15 22:34	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2-Dibromoethane (EDB)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,3-Dichloropropane	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
cis-1,3-Dichloropropene	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
trans-1,3-Dichloropropene	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Diethyl Ether	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Diisopropyl Ether (DIPE)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,4-Dioxane	ND	0.056	mg/Kg dry	1	V-16	SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF



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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_1 (5-6')

Sampled: 1/16/2015 09:40

Sample ID: 15A0471-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Methylene Chloride	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Naphthalene	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.00056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Tetrahydrofuran	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Trichloroethylene	0.0095	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
Vinyl Chloride	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 22:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.7	70-130	1/19/15 22:34
Toluene-d8	100	70-130	1/19/15 22:34
4-Bromofluorobenzene	97.2	70-130	1/19/15 22:34

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEx\_1 (5-6')

Sampled: 1/16/2015 09:40

Sample ID: 15A0471-01

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	94.1		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_2 (6-7')

Sampled: 1/16/2015 09:50

Sample ID: 15A0471-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1	V-05	SW-846 8260C	1/19/15	1/19/15 23:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Benzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Bromobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Bromochloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Bromodichloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Bromoform	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Bromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
2-Butanone (MEK)	ND	0.057	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
n-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
sec-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
tert-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Carbon Disulfide	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Carbon Tetrachloride	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Chlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Chloroform	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Chloromethane	ND	0.014	mg/Kg dry	1	R-05	SW-846 8260C	1/19/15	1/19/15 23:01	MFF
2-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
4-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Dibromomethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,3-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,4-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,1-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,1-Dichloroethylene	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
cis-1,2-Dichloroethylene	0.024	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
trans-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
2,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,1-Dichloropropene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Diethyl Ether	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Diisopropyl Ether (DIPE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,4-Dioxane	ND	0.14	mg/Kg dry	1	V-16	SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Ethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_2 (6-7')

Sampled: 1/16/2015 09:50

Sample ID: 15A0471-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
2-Hexanone (MBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Isopropylbenzene (Cumene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Naphthalene	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
n-Propylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Styrene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Tetrachloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Toluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2,3-Trichlorobenzene	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2,4-Trichlorobenzene	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,1,1-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,1,2-Trichloroethane	0.0068	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Trichloroethylene	46	0.99	mg/Kg dry	10		SW-846 8260C	1/20/15	1/20/15 7:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2,3-Trichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,2,4-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
1,3,5-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
m+p Xylene	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF
o-Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	1/19/15 23:01
1,2-Dichloroethane-d4	95.7	70-130	1/20/15 7:59
Toluene-d8	100	70-130	1/19/15 23:01
Toluene-d8	97.6	70-130	1/20/15 7:59
4-Bromofluorobenzene	95.7	70-130	1/19/15 23:01
4-Bromofluorobenzene	96.8	70-130	1/20/15 7:59

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEx\_2 (6-7')

Sampled: 1/16/2015 09:50

Sample ID: 15A0471-02

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	65.9		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_3 (6-7')

Sampled: 1/16/2015 10:00

Sample ID: 15A0471-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1	V-05	SW-846 8260C	1/19/15	1/19/15 23:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Bromoform	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Carbon Disulfide	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Chloroethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Chloromethane	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	1/19/15	1/19/15 23:28	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
cis-1,2-Dichloroethylene	0.0041	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Diethyl Ether	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1	V-16	SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_3 (6-7')

Sampled: 1/16/2015 10:00

Sample ID: 15A0471-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Methylene Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Naphthalene	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2,3-Trichlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2,4-Trichlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Trichloroethylene	0.087	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.4	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	95.4	70-130	

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPX\_3 (6-7')

Sampled: 1/16/2015 10:00

Sample ID: 15A0471-03

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	76.9		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL



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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_4 (6-7')

Sampled: 1/16/2015 10:10

Sample ID: 15A0471-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1	V-05	SW-846 8260C	1/19/15	1/19/15 23:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Bromoform	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Chloromethane	ND	0.010	mg/Kg dry	1	R-05	SW-846 8260C	1/19/15	1/19/15 23:55	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Diethyl Ether	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_4 (6-7')

Sampled: 1/16/2015 10:10

Sample ID: 15A0471-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Naphthalene	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Trichloroethylene	0.025	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 23:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	99.2	70-130	
4-Bromofluorobenzene	92.2	70-130	

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPX\_4 (6-7')

Sampled: 1/16/2015 10:10

Sample ID: 15A0471-04

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	68.6		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_5 (5-6')

Sampled: 1/16/2015 10:20

Sample ID: 15A0471-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.4	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Benzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Bromobenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Bromochloromethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Bromodichloromethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Bromoform	ND	0.54	mg/Kg dry	1	RL-07	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Bromomethane	ND	0.22	mg/Kg dry	1	L-04, V-05	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
2-Butanone (MEK)	ND	2.2	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
n-Butylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
sec-Butylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
tert-Butylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Carbon Disulfide	ND	1.1	mg/Kg dry	1	L-04, RL-07	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Carbon Tetrachloride	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Chlorobenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Chlorodibromomethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Chloroethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Chloroform	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Chloromethane	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
2-Chlorotoluene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
4-Chlorotoluene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.1	mg/Kg dry	1	RL-07	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2-Dibromoethane (EDB)	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Dibromomethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2-Dichlorobenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,3-Dichlorobenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,4-Dichlorobenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,1-Dichloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2-Dichloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,1-Dichloroethylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
cis-1,2-Dichloroethylene	0.15	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
trans-1,2-Dichloroethylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2-Dichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,3-Dichloropropane	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
2,2-Dichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,1-Dichloropropene	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
cis-1,3-Dichloropropene	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
trans-1,3-Dichloropropene	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Diethyl Ether	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Diisopropyl Ether (DIPE)	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,4-Dioxane	ND	5.4	mg/Kg dry	1	V-16	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Ethylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_5 (5-6')

Sampled: 1/16/2015 10:20

Sample ID: 15A0471-05

Sample Matrix: Soil

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 dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
2-Hexanone (MBK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Isopropylbenzene (Cumene)	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Methylene Chloride	ND	0.54	mg/Kg dry	1	R-05, RL-07	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Naphthalene	ND	1.1	mg/Kg dry	1	RL-07	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
n-Propylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Styrene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,1,1,2-Tetrachloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Tetrachloroethylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Tetrahydrofuran	ND	0.43	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Toluene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2,3-Trichlorobenzene	ND	0.54	mg/Kg dry	1	RL-07	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2,4-Trichlorobenzene	ND	0.54	mg/Kg dry	1	RL-07	SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,1,1-Trichloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,1,2-Trichloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Trichloroethylene	5.8	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2,3-Trichloropropane	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,2,4-Trimethylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
1,3,5-Trimethylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
Vinyl Chloride	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
m+p Xylene	ND	0.22	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF
o-Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/19/15	1/19/15 13:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	114	70-130	
Toluene-d8	118	70-130	
4-Bromofluorobenzene	123	70-130	

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPX\_5 (5-6')

Sampled: 1/16/2015 10:20

Sample ID: 15A0471-05

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	72.0		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_B1 (7')

Sampled: 1/16/2015 10:30

Sample ID: 15A0471-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.34	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Benzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Bromobenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Bromochloromethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Bromodichloromethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Bromoform	ND	0.034	mg/Kg dry	1	L-04, V-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Bromomethane	ND	0.034	mg/Kg dry	1	R-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
2-Butanone (MEK)	ND	0.14	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
n-Butylbenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
sec-Butylbenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
tert-Butylbenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Carbon Disulfide	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Carbon Tetrachloride	ND	0.0068	mg/Kg dry	1	V-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Chlorobenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Chlorodibromomethane	ND	0.0034	mg/Kg dry	1	V-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Chloroethane	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Chloroform	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Chloromethane	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
2-Chlorotoluene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
4-Chlorotoluene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0068	mg/Kg dry	1	V-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2-Dibromoethane (EDB)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Dibromomethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2-Dichlorobenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,3-Dichlorobenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,4-Dichlorobenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,1-Dichloroethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2-Dichloroethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,1-Dichloroethylene	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
cis-1,2-Dichloroethylene	0.012	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
trans-1,2-Dichloroethylene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2-Dichloropropane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,3-Dichloropropane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
2,2-Dichloropropane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,1-Dichloropropene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
cis-1,3-Dichloropropene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
trans-1,3-Dichloropropene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Diethyl Ether	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Diisopropyl Ether (DIPE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,4-Dioxane	ND	0.34	mg/Kg dry	1	V-16	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Ethylbenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_B1 (7')

Sampled: 1/16/2015 10:30

Sample ID: 15A0471-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
2-Hexanone (MBK)	ND	0.068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Isopropylbenzene (Cumene)	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Methylene Chloride	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Naphthalene	ND	0.034	mg/Kg dry	1	V-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
n-Propylbenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Styrene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0068	mg/Kg dry	1	V-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Tetrachloroethylene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Tetrahydrofuran	ND	0.034	mg/Kg dry	1	R-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Toluene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2,3-Trichlorobenzene	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2,4-Trichlorobenzene	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,1,1-Trichloroethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,1,2-Trichloroethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Trichloroethylene	43	3.2	mg/Kg dry	10		SW-846 8260C	1/21/15	1/21/15 9:59	LBD
Trichlorofluoromethane (Freon 11)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2,3-Trichloropropane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,2,4-Trimethylbenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
1,3,5-Trimethylbenzene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
Vinyl Chloride	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
m+p Xylene	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF
o-Xylene	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/21/15	1/21/15 11:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
1,2-Dichloroethane-d4	122	70-130	
Toluene-d8	97.0	70-130	
<b>Toluene-d8</b>	<b>132 *</b>	70-130	S-16
4-Bromofluorobenzene	79.9	70-130	
4-Bromofluorobenzene	126	70-130	



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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_B1 (7')

Sampled: 1/16/2015 10:30

Sample ID: 15A0471-06

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	32.5		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_B2 (7')

Sampled: 1/16/2015 10:40

Sample ID: 15A0471-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Bromoform	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
2-Butanone (MEK)	ND	0.049	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Carbon Disulfide	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Chloroform	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,1-Dichloroethylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
cis-1,2-Dichloroethylene	0.014	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Diethyl Ether	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1	V-16	SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_B2 (7')

Sampled: 1/16/2015 10:40

Sample ID: 15A0471-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Naphthalene	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2,3-Trichlorobenzene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2,4-Trichlorobenzene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Trichloroethylene	10	1.3	mg/Kg dry	10		SW-846 8260C	1/21/15	1/21/15 10:31	LBD
Trichloroethylene	9.1	1.3	mg/Kg dry	10		SW-846 8260C	1/21/15	1/21/15 11:35	LBD
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
m+p Xylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.9	70-130	
<b>1,2-Dichloroethane-d4</b>	<b>136</b> *	70-130	S-19
<b>1,2-Dichloroethane-d4</b>	<b>171</b> *	70-130	S-19
Toluene-d8	99.2	70-130	
Toluene-d8	129	70-130	
<b>Toluene-d8</b>	<b>159</b> *	70-130	S-03
4-Bromofluorobenzene	92.8	70-130	
<b>4-Bromofluorobenzene</b>	<b>162</b> *	70-130	S-19
<b>4-Bromofluorobenzene</b>	<b>141</b> *	70-130	S-19

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: VPEX\_B2 (7')

Sampled: 1/16/2015 10:40

Sample ID: 15A0471-07

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	61.8		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: DUP-1

Sampled: 1/16/2015 00:00

Sample ID: 15A0471-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Benzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Bromobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Bromochloromethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Bromodichloromethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Bromoform	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Bromomethane	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
2-Butanone (MEK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
n-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
sec-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
tert-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Carbon Disulfide	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Carbon Tetrachloride	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Chlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Chlorodibromomethane	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Chloroethane	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Chloroform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Chloromethane	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
2-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
4-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Dibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,3-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,4-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,1-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,1-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
cis-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
trans-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,3-Dichloropropane	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
2,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,1-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
cis-1,3-Dichloropropene	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
trans-1,3-Dichloropropene	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Diethyl Ether	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Diisopropyl Ether (DIPE)	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,4-Dioxane	ND	0.052	mg/Kg dry	1	V-16	SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Ethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: DUP-1

Sampled: 1/16/2015 00:00

Sample ID: 15A0471-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
2-Hexanone (MBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Isopropylbenzene (Cumene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Methylene Chloride	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Naphthalene	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
n-Propylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Styrene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.00052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Tetrachloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Tetrahydrofuran	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Toluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,1,1-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,1,2-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Trichloroethylene	0.0079	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2,3-Trichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,2,4-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
1,3,5-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
Vinyl Chloride	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
m+p Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF
o-Xylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/20/15	1/20/15 9:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	97.4	70-130	

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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: DUP-1

Sampled: 1/16/2015 00:00

Sample ID: 15A0471-08

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	94.5		% Wt	1		SM 2540G	1/20/15	1/21/15 10:21	MRL

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

Project Location: 102 Greenwood ARP New Bedford

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: Trip Blank

Sampled: 1/16/2015 00:00

Sample ID: 15A0471-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Bromochloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Bromoform	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Chloroethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Diethyl Ether	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,4-Dioxane	ND	0.10	mg/Kg wet	1	V-16	SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF



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

Project Location: 102 Greenwood ARP New Bedfor

Sample Description:

Work Order: 15A0471

Date Received: 1/16/2015

Field Sample #: Trip Blank

Sampled: 1/16/2015 00:00

Sample ID: 15A0471-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Methylene Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Naphthalene	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/20/15	1/20/15 10:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	1/20/15 10:07
Toluene-d8	101	70-130	1/20/15 10:07
4-Bromofluorobenzene	96.2	70-130	1/20/15 10:07

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
15A0471-01 [VPEX_1 (5-6')]	B113792	01/20/15
15A0471-02 [VPEX_2 (6-7')]	B113792	01/20/15
15A0471-03 [VPEX_3 (6-7')]	B113792	01/20/15
15A0471-04 [VPEX_4 (6-7')]	B113792	01/20/15
15A0471-05 [VPEX_5 (5-6')]	B113792	01/20/15
15A0471-06 [VPEX_B1 (7')]	B113792	01/20/15
15A0471-07 [VPEX_B2 (7')]	B113792	01/20/15
15A0471-08 [DUP-1]	B113792	01/20/15

**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0471-01 [VPEX_1 (5-6')]	B113722	9.47	10.0	01/19/15
15A0471-02 [VPEX_2 (6-7')]	B113722	5.36	10.0	01/19/15
15A0471-03 [VPEX_3 (6-7')]	B113722	6.11	10.0	01/19/15
15A0471-04 [VPEX_4 (6-7')]	B113722	7.21	10.0	01/19/15

**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
15A0471-05 [VPEX_5 (5-6')]	B113727	11.7	18.3	1	50	01/19/15

**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
15A0471-02 [VPEX_2 (6-7')]	B113760	11.7	15.2	0.1	50	01/20/15

**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0471-07 [VPEX_B2 (7')]	B113795	6.67	10.0	01/20/15
15A0471-08 [DUP-1]	B113795	10.2	10.0	01/20/15
15A0471-09 [Trip Blank]	B113795	5.00	10.0	01/20/15

**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
15A0471-06 [VPEX_B1 (7')]	B113850	11.0	22.6	0.1	50	01/21/15
15A0471-07 [VPEX_B2 (7')]	B113850	12.2	19.9	0.1	50	01/21/15
15A0471-07RE1 [VPEX_B2 (7')]	B113850	12.2	19.9	0.1	50	01/21/15

**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0471-06 [VPEX_B1 (7')]	B113862	4.55	10.0	01/21/15

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
<b>Batch B113722 - SW-846 5035</b>										
<b>Blank (B113722-BLK1)</b>										
Prepared & Analyzed: 01/19/15										
Acetone	ND	0.10	mg/Kg wet							V-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.010	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							R-05
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.010	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 B113722 - SW-846 5035

Blank (B113722-BLK1)

Prepared & Analyzed: 01/19/15

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0487		mg/Kg wet	0.0500		97.4	70-130			

LCS (B113722-BS1)

Prepared & Analyzed: 01/19/15

Acetone	0.160	0.10	mg/Kg wet	0.200		80.2	40-160		V-05	†
tert-Amyl Methyl Ether (TAME)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromochloromethane	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
Bromodichloromethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromoform	0.0192	0.010	mg/Kg wet	0.0200		95.9	70-130			
Bromomethane	0.0106	0.010	mg/Kg wet	0.0200		53.0	40-160		L-14, V-20	†
2-Butanone (MEK)	0.176	0.040	mg/Kg wet	0.200		87.8	40-160			†
n-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
sec-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
Carbon Disulfide	0.0213	0.0060	mg/Kg wet	0.0200		106	70-130			
Carbon Tetrachloride	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130			
Chloroethane	0.0228	0.010	mg/Kg wet	0.0200		114	70-130			
Chloroform	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0165	0.010	mg/Kg wet	0.0200		82.6	40-160		R-05	†
2-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
4-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Dibromomethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,4-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	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
<b>Batch B113722 - SW-846 5035</b>										
<b>LCS (B113722-BS1)</b>										
Prepared & Analyzed: 01/19/15										
Dichlorodifluoromethane (Freon 12)	0.0212	0.010	mg/Kg wet	0.0200		106	40-160			†
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1-Dichloroethylene	0.0246	0.0040	mg/Kg wet	0.0200		123	70-130			
cis-1,2-Dichloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
trans-1,2-Dichloroethylene	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130			
1,2-Dichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloropropene	0.0241	0.0020	mg/Kg wet	0.0200		121	70-130			
cis-1,3-Dichloropropene	0.0186	0.0010	mg/Kg wet	0.0200		93.0	70-130			
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Diethyl Ether	0.0226	0.010	mg/Kg wet	0.0200		113	70-130			
Diisopropyl Ether (DIPE)	0.0215	0.0010	mg/Kg wet	0.0200		108	70-130			
1,4-Dioxane	0.190	0.10	mg/Kg wet	0.200		95.2	40-160			V-16 †
Ethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Hexachlorobutadiene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
2-Hexanone (MBK)	0.195	0.020	mg/Kg wet	0.200		97.6	40-160			†
Isopropylbenzene (Cumene)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0218	0.0040	mg/Kg wet	0.0200		109	70-130			
Methylene Chloride	0.0223	0.010	mg/Kg wet	0.0200		111	70-130			
4-Methyl-2-pentanone (MIBK)	0.202	0.020	mg/Kg wet	0.200		101	40-160			†
Naphthalene	0.0210	0.010	mg/Kg wet	0.0200		105	70-130			
n-Propylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Styrene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1,2,2-Tetrachloroethane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Tetrachloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Tetrahydrofuran	0.0221	0.010	mg/Kg wet	0.0200		111	70-130			
Toluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,3-Trichlorobenzene	0.0196	0.0040	mg/Kg wet	0.0200		97.8	70-130			
1,2,4-Trichlorobenzene	0.0187	0.0040	mg/Kg wet	0.0200		93.4	70-130			
1,1,1-Trichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,2-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Trichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichlorofluoromethane (Freon 11)	0.0246	0.010	mg/Kg wet	0.0200		123	70-130			
1,2,3-Trichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2,4-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,3,5-Trimethylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Vinyl Chloride	0.0207	0.010	mg/Kg wet	0.0200		103	70-130			
m+p Xylene	0.0433	0.0040	mg/Kg wet	0.0400		108	70-130			
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	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
<b>Batch B113722 - SW-846 5035</b>										
<b>LCS Dup (B113722-BSD1)</b>										
Prepared & Analyzed: 01/19/15										
Acetone	0.167	0.10	mg/Kg wet	0.200		83.7	40-160	4.24	20	V-05 †
tert-Amyl Methyl Ether (TAME)	0.0199	0.0010	mg/Kg wet	0.0200		99.4	70-130	0.702	20	
Benzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.64	20	
Bromobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	2.67	20	
Bromochloromethane	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	1.26	20	
Bromodichloromethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	1.70	20	
Bromoform	0.0187	0.010	mg/Kg wet	0.0200		93.3	70-130	2.75	20	
Bromomethane	0.0124	0.010	mg/Kg wet	0.0200		62.0	40-160	15.7	20	L-14, V-20 †
2-Butanone (MEK)	0.180	0.040	mg/Kg wet	0.200		89.8	40-160	2.24	20	†
n-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	4.52	20	
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	3.18	20	
tert-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.16	20	
tert-Butyl Ethyl Ether (TBEE)	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130	1.99	20	
Carbon Disulfide	0.0207	0.0060	mg/Kg wet	0.0200		104	70-130	2.67	20	
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	3.25	20	
Chlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.21	20	
Chlorodibromomethane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	0.0968	20	
Chloroethane	0.0221	0.010	mg/Kg wet	0.0200		111	70-130	3.11	20	
Chloroform	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130	2.95	20	
Chloromethane	0.0117	0.010	mg/Kg wet	0.0200		58.6	40-160	<b>34.0</b> *	20	L-14, R-05 †
2-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	3.88	20	
4-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	4.73	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	4.51	20	
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130	1.24	20	
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.845	20	
1,2-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	2.60	20	
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	3.10	20	
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	3.78	20	
Dichlorodifluoromethane (Freon 12)	0.0203	0.010	mg/Kg wet	0.0200		101	40-160	4.34	20	†
1,1-Dichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	2.41	20	
1,2-Dichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.17	20	
1,1-Dichloroethylene	0.0239	0.0040	mg/Kg wet	0.0200		120	70-130	2.80	20	
cis-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	3.72	20	
trans-1,2-Dichloroethylene	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	3.27	20	
1,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	0.754	20	
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130	1.80	20	
2,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	3.87	20	
1,1-Dichloropropene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	2.26	20	
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.5	70-130	1.63	20	
trans-1,3-Dichloropropene	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	0.878	20	
Diethyl Ether	0.0221	0.010	mg/Kg wet	0.0200		111	70-130	2.23	20	
Diisopropyl Ether (DIPE)	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130	2.16	20	
1,4-Dioxane	0.198	0.10	mg/Kg wet	0.200		98.8	40-160	3.74	20	V-16 †
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	2.93	20	
Hexachlorobutadiene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	2.55	20	
2-Hexanone (MBK)	0.192	0.020	mg/Kg wet	0.200		96.1	40-160	1.61	20	†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.45	20	
p-Isopropyltoluene (p-Cymene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	5.58	20	
Methyl tert-Butyl Ether (MTBE)	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130	1.02	20	
Methylene Chloride	0.0217	0.010	mg/Kg wet	0.0200		108	70-130	2.82	20	
4-Methyl-2-pentanone (MIBK)	0.202	0.020	mg/Kg wet	0.200		101	40-160	0.0792	20	†
Naphthalene	0.0206	0.010	mg/Kg wet	0.0200		103	70-130	1.93	20	

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
<b>Batch B113722 - SW-846 5035</b>										
<b>LCS Dup (B113722-BSD1)</b>										
Prepared & Analyzed: 01/19/15										
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	5.59	20	
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	4.31	20	
1,1,1,2-Tetrachloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.28	20	
1,1,2,2-Tetrachloroethane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	1.06	20	
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.03	20	
Tetrahydrofuran	0.0217	0.010	mg/Kg wet	0.0200		109	70-130	1.82	20	
Toluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	2.03	20	
1,2,3-Trichlorobenzene	0.0188	0.0040	mg/Kg wet	0.0200		93.8	70-130	4.18	20	
1,2,4-Trichlorobenzene	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130	4.94	20	
1,1,1-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	2.37	20	
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.43	20	
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	3.43	20	
Trichlorofluoromethane (Freon 11)	0.0241	0.010	mg/Kg wet	0.0200		120	70-130	2.38	20	
1,2,3-Trichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	0.802	20	
1,2,4-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	4.17	20	
1,3,5-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	4.31	20	
Vinyl Chloride	0.0199	0.010	mg/Kg wet	0.0200		99.6	70-130	3.74	20	
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130	3.86	20	
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.5	70-130			

**Batch B113727 - SW-846 5035**

**Blank (B113727-BLK1)**

Prepared & Analyzed: 01/19/15

Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.051	mg/Kg wet							
Bromobenzene	ND	0.051	mg/Kg wet							
Bromochloromethane	ND	0.051	mg/Kg wet							
Bromodichloromethane	ND	0.051	mg/Kg wet							
Bromoform	ND	0.051	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							L-04, V-05
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.051	mg/Kg wet							
sec-Butylbenzene	ND	0.051	mg/Kg wet							
tert-Butylbenzene	ND	0.051	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.51	mg/Kg wet							L-04
Carbon Tetrachloride	ND	0.051	mg/Kg wet							
Chlorobenzene	ND	0.051	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.051	mg/Kg wet							
4-Chlorotoluene	ND	0.051	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.20	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.051	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.051	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.051	mg/Kg wet							

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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
<b>Batch B113727 - SW-846 5035</b>										
<b>Blank (B113727-BLK1)</b>										
Prepared & Analyzed: 01/19/15										
1,4-Dichlorobenzene	ND	0.051	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.051	mg/Kg wet							
1,2-Dichloroethane	ND	0.051	mg/Kg wet							
1,1-Dichloroethylene	ND	0.051	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.051	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.051	mg/Kg wet							
1,2-Dichloropropane	ND	0.051	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.051	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.051	mg/Kg wet							
Hexachlorobutadiene	ND	0.051	mg/Kg wet							
2-Hexanone (MBK)	ND	0.51	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.051	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.051	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.051	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							R-05
4-Methyl-2-pentanone (MIBK)	ND	0.51	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.051	mg/Kg wet							
Styrene	ND	0.051	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.051	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.051	mg/Kg wet							
Tetrahydrofuran	ND	0.20	mg/Kg wet							
Toluene	ND	0.051	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.20	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.051	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.051	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.051	mg/Kg wet							
Trichloroethylene	ND	0.051	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.051	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.051	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.051	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	1.15		mg/Kg wet	1.33		86.4	70-130			
Surrogate: Toluene-d8	1.18		mg/Kg wet	1.33		88.9	70-130			
Surrogate: 4-Bromofluorobenzene	1.20		mg/Kg wet	1.33		89.7	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
<b>Batch B113727 - SW-846 5035</b>										
<b>LCS (B113727-BS1)</b>										
Prepared & Analyzed: 01/19/15										
Acetone	0.116	0.057	mg/Kg wet	0.113		103	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0101	0.00057	mg/Kg wet	0.0113		88.8	70-130			
Benzene	0.0103	0.0011	mg/Kg wet	0.0113		90.8	70-130			
Bromobenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.9	70-130			
Bromochloromethane	0.0112	0.0011	mg/Kg wet	0.0113		98.6	70-130			
Bromodichloromethane	0.0108	0.0011	mg/Kg wet	0.0113		95.0	70-130			
Bromoform	0.00970	0.0011	mg/Kg wet	0.0113		85.6	70-130			
<b>Bromomethane</b>	0.00270	0.0023	mg/Kg wet	0.0113		<b>23.8</b>	* 40-160			L-04, V-05 †
2-Butanone (MEK)	0.110	0.023	mg/Kg wet	0.113		97.5	40-160			†
n-Butylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
sec-Butylbenzene	0.0109	0.0011	mg/Kg wet	0.0113		95.9	70-130			
tert-Butylbenzene	0.0104	0.0011	mg/Kg wet	0.0113		92.2	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0104	0.00057	mg/Kg wet	0.0113		91.8	70-130			
<b>Carbon Disulfide</b>	0.00726	0.011	mg/Kg wet	0.0113		<b>64.1</b>	* 70-130			L-04
Carbon Tetrachloride	0.0102	0.0011	mg/Kg wet	0.0113		89.6	70-130			
Chlorobenzene	0.0103	0.0011	mg/Kg wet	0.0113		91.2	70-130			
Chlorodibromomethane	0.0103	0.00057	mg/Kg wet	0.0113		90.5	70-130			
Chloroethane	0.0110	0.0023	mg/Kg wet	0.0113		96.9	70-130			
Chloroform	0.0100	0.0023	mg/Kg wet	0.0113		88.5	70-130			
Chloromethane	0.00760	0.0023	mg/Kg wet	0.0113		67.1	40-160			L-14 †
2-Chlorotoluene	0.0105	0.0011	mg/Kg wet	0.0113		93.0	70-130			
4-Chlorotoluene	0.0106	0.0011	mg/Kg wet	0.0113		93.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0112	0.0045	mg/Kg wet	0.0113		98.8	70-130			
1,2-Dibromoethane (EDB)	0.0109	0.00057	mg/Kg wet	0.0113		96.4	70-130			
Dibromomethane	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130			
1,2-Dichlorobenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.2	70-130			
1,3-Dichlorobenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.3	70-130			
1,4-Dichlorobenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.4	70-130			
Dichlorodifluoromethane (Freon 12)	0.00660	0.0023	mg/Kg wet	0.0113		58.2	40-160			L-14 †
1,1-Dichloroethane	0.0101	0.0011	mg/Kg wet	0.0113		89.5	70-130			
1,2-Dichloroethane	0.0104	0.0011	mg/Kg wet	0.0113		92.1	70-130			
1,1-Dichloroethylene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
cis-1,2-Dichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		96.4	70-130			
trans-1,2-Dichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		96.4	70-130			
1,2-Dichloropropane	0.0103	0.0011	mg/Kg wet	0.0113		91.1	70-130			
1,3-Dichloropropane	0.0103	0.00057	mg/Kg wet	0.0113		90.7	70-130			
2,2-Dichloropropane	0.00977	0.0011	mg/Kg wet	0.0113		86.2	70-130			
1,1-Dichloropropene	0.0110	0.0023	mg/Kg wet	0.0113		97.0	70-130			
cis-1,3-Dichloropropene	0.00984	0.00057	mg/Kg wet	0.0113		86.8	70-130			
trans-1,3-Dichloropropene	0.0110	0.00057	mg/Kg wet	0.0113		96.7	70-130			
Diethyl Ether	0.0121	0.0023	mg/Kg wet	0.0113		107	70-130			
Diisopropyl Ether (DIPE)	0.0101	0.00057	mg/Kg wet	0.0113		89.4	70-130			
1,4-Dioxane	0.150	0.057	mg/Kg wet	0.113		132	40-160			L-14, V-16, V-20 †
Ethylbenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.0	70-130			
Hexachlorobutadiene	0.0108	0.0011	mg/Kg wet	0.0113		95.2	70-130			
2-Hexanone (MBK)	0.118	0.011	mg/Kg wet	0.113		104	40-160			†
Isopropylbenzene (Cumene)	0.0109	0.0011	mg/Kg wet	0.0113		96.4	70-130			
p-Isopropyltoluene (p-Cymene)	0.0107	0.0011	mg/Kg wet	0.0113		94.4	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0106	0.0011	mg/Kg wet	0.0113		93.6	70-130			
<b>Methylene Chloride</b>	0.00737	0.0057	mg/Kg wet	0.0113		<b>65.0</b>	* 70-130			L-07A, R-05
4-Methyl-2-pentanone (MIBK)	0.108	0.011	mg/Kg wet	0.113		95.4	40-160			†
Naphthalene	0.0128	0.0023	mg/Kg wet	0.0113		113	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
<b>Batch B113727 - SW-846 5035</b>										
<b>LCS (B113727-BS1)</b>										
Prepared & Analyzed: 01/19/15										
n-Propylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.9	70-130			
Styrene	0.0110	0.0011	mg/Kg wet	0.0113		97.1	70-130			
1,1,1,2-Tetrachloroethane	0.0106	0.0011	mg/Kg wet	0.0113		93.3	70-130			
1,1,2,2-Tetrachloroethane	0.0115	0.00057	mg/Kg wet	0.0113		102	70-130			
Tetrachloroethylene	0.0102	0.0011	mg/Kg wet	0.0113		89.8	70-130			
Tetrahydrofuran	0.0117	0.0045	mg/Kg wet	0.0113		104	70-130			
Toluene	0.0104	0.0011	mg/Kg wet	0.0113		92.0	70-130			
1,2,3-Trichlorobenzene	0.0108	0.0045	mg/Kg wet	0.0113		95.2	70-130			
1,2,4-Trichlorobenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.0	70-130			
1,1,1-Trichloroethane	0.00991	0.0011	mg/Kg wet	0.0113		87.4	70-130			
1,1,2-Trichloroethane	0.0106	0.0011	mg/Kg wet	0.0113		93.7	70-130			
Trichloroethylene	0.00984	0.0011	mg/Kg wet	0.0113		86.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0117	0.0023	mg/Kg wet	0.0113		103	70-130			
1,2,3-Trichloropropane	0.0112	0.0023	mg/Kg wet	0.0113		99.2	70-130			
1,2,4-Trimethylbenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.1	70-130			
1,3,5-Trimethylbenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.2	70-130			
Vinyl Chloride	0.00899	0.0023	mg/Kg wet	0.0113		79.3	70-130			
m+p Xylene	0.0217	0.0023	mg/Kg wet	0.0227		95.6	70-130			
o-Xylene	0.0107	0.0011	mg/Kg wet	0.0113		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0267		mg/Kg wet	0.0283		94.4	70-130			
Surrogate: Toluene-d8	0.0281		mg/Kg wet	0.0283		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0285		mg/Kg wet	0.0283		101	70-130			
<b>LCS Dup (B113727-BSD1)</b>										
Prepared & Analyzed: 01/19/15										
Acetone	0.114	0.057	mg/Kg wet	0.113		100	40-160	2.29	20	†
tert-Amyl Methyl Ether (TAME)	0.0106	0.00057	mg/Kg wet	0.0113		93.3	70-130	4.94	20	
Benzene	0.0105	0.0011	mg/Kg wet	0.0113		92.7	70-130	2.07	20	
Bromobenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.8	70-130	2.02	20	
Bromochloromethane	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	3.68	20	
Bromodichloromethane	0.0110	0.0011	mg/Kg wet	0.0113		97.5	70-130	2.60	20	
Bromoform	0.00991	0.0011	mg/Kg wet	0.0113		87.4	70-130	2.08	20	
<b>Bromomethane</b>	0.00314	0.0023	mg/Kg wet	0.0113		27.7 *	40-160	15.1	20	L-04, V-05 †
2-Butanone (MEK)	0.118	0.023	mg/Kg wet	0.113		104	40-160	6.14	20	†
n-Butylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130	0.401	20	
sec-Butylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.6	70-130	2.78	20	
tert-Butylbenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.8	70-130	1.72	20	
tert-Butyl Ethyl Ether (TBEE)	0.0108	0.00057	mg/Kg wet	0.0113		95.0	70-130	3.43	20	
<b>Carbon Disulfide</b>	0.00679	0.011	mg/Kg wet	0.0113		59.9 *	70-130	6.77	20	L-04
Carbon Tetrachloride	0.0102	0.0011	mg/Kg wet	0.0113		90.3	70-130	0.778	20	
Chlorobenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.8	70-130	2.81	20	
Chlorodibromomethane	0.0107	0.00057	mg/Kg wet	0.0113		94.5	70-130	4.32	20	
Chloroethane	0.00969	0.0023	mg/Kg wet	0.0113		85.5	70-130	12.5	20	
Chloroform	0.0104	0.0023	mg/Kg wet	0.0113		91.5	70-130	3.33	20	
Chloromethane	0.00709	0.0023	mg/Kg wet	0.0113		62.6	40-160	6.94	20	L-14 †
2-Chlorotoluene	0.0106	0.0011	mg/Kg wet	0.0113		93.8	70-130	0.857	20	
4-Chlorotoluene	0.0109	0.0011	mg/Kg wet	0.0113		96.1	70-130	2.42	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0114	0.0045	mg/Kg wet	0.0113		100	70-130	1.61	20	
1,2-Dibromoethane (EDB)	0.0115	0.00057	mg/Kg wet	0.0113		102	70-130	5.45	20	
Dibromomethane	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130	4.81	20	
1,2-Dichlorobenzene	0.0110	0.0011	mg/Kg wet	0.0113		96.9	70-130	3.89	20	
1,3-Dichlorobenzene	0.0109	0.0011	mg/Kg wet	0.0113		95.8	70-130	3.72	20	
1,4-Dichlorobenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.2	70-130	4.16	20	

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
<b>Batch B113727 - SW-846 5035</b>										
<b>LCS Dup (B113727-BSD1)</b>										
Prepared & Analyzed: 01/19/15										
Dichlorodifluoromethane (Freon 12)	0.00666	0.0023	mg/Kg wet	0.0113		58.8	40-160	1.03	20	L-14 †
1,1-Dichloroethane	0.0102	0.0011	mg/Kg wet	0.0113		90.3	70-130	0.890	20	
1,2-Dichloroethane	0.0108	0.0011	mg/Kg wet	0.0113		95.5	70-130	3.62	20	
1,1-Dichloroethylene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130	9.30	20	
cis-1,2-Dichloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.3	70-130	0.929	20	
trans-1,2-Dichloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.3	70-130	0.929	20	
1,2-Dichloropropane	0.0108	0.0011	mg/Kg wet	0.0113		94.9	70-130	4.09	20	
1,3-Dichloropropane	0.0109	0.00057	mg/Kg wet	0.0113		96.1	70-130	5.78	20	
2,2-Dichloropropane	0.00977	0.0011	mg/Kg wet	0.0113		86.2	70-130	0.00	20	
1,1-Dichloropropene	0.0112	0.0023	mg/Kg wet	0.0113		99.1	70-130	2.14	20	
cis-1,3-Dichloropropene	0.0103	0.00057	mg/Kg wet	0.0113		90.6	70-130	4.28	20	
trans-1,3-Dichloropropene	0.0114	0.00057	mg/Kg wet	0.0113		100	70-130	3.75	20	
Diethyl Ether	0.0111	0.0023	mg/Kg wet	0.0113		97.9	70-130	8.98	20	
Diisopropyl Ether (DIPE)	0.0104	0.00057	mg/Kg wet	0.0113		92.2	70-130	3.08	20	
1,4-Dioxane	0.160	0.057	mg/Kg wet	0.113		141	40-160	6.77	20	V-20, L-14, V-16 †
Ethylbenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.0	70-130	2.11	20	
Hexachlorobutadiene	0.0107	0.0011	mg/Kg wet	0.0113		94.0	70-130	1.27	20	
2-Hexanone (MBK)	0.125	0.011	mg/Kg wet	0.113		110	40-160	5.64	20	†
Isopropylbenzene (Cumene)	0.0109	0.0011	mg/Kg wet	0.0113		96.0	70-130	0.416	20	
p-Isopropyltoluene (p-Cymene)	0.0111	0.0011	mg/Kg wet	0.0113		97.9	70-130	3.64	20	
Methyl tert-Butyl Ether (MTBE)	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130	5.41	20	
Methylene Chloride	0.0113	0.0057	mg/Kg wet	0.0113		99.7	70-130	<b>42.1</b> *	20	R-05
4-Methyl-2-pentanone (MIBK)	0.112	0.011	mg/Kg wet	0.113		98.6	40-160	3.37	20	†
Naphthalene	0.0129	0.0023	mg/Kg wet	0.0113		114	70-130	1.23	20	
n-Propylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130	0.405	20	
Styrene	0.0113	0.0011	mg/Kg wet	0.0113		99.5	70-130	2.44	20	
1,1,1,2-Tetrachloroethane	0.0109	0.0011	mg/Kg wet	0.0113		96.2	70-130	3.06	20	
1,1,2,2-Tetrachloroethane	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130	2.62	20	
Tetrachloroethylene	0.0104	0.0011	mg/Kg wet	0.0113		91.4	70-130	1.77	20	
Tetrahydrofuran	0.0121	0.0045	mg/Kg wet	0.0113		106	70-130	2.67	20	
Toluene	0.0107	0.0011	mg/Kg wet	0.0113		94.0	70-130	2.15	20	
1,2,3-Trichlorobenzene	0.0110	0.0045	mg/Kg wet	0.0113		97.4	70-130	2.28	20	
1,2,4-Trichlorobenzene	0.0104	0.0011	mg/Kg wet	0.0113		91.6	70-130	2.88	20	
1,1,1-Trichloroethane	0.00991	0.0011	mg/Kg wet	0.0113		87.4	70-130	0.00	20	
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.5	70-130	6.00	20	
Trichloroethylene	0.00994	0.0011	mg/Kg wet	0.0113		87.7	70-130	1.03	20	
Trichlorofluoromethane (Freon 11)	0.0109	0.0023	mg/Kg wet	0.0113		96.0	70-130	7.13	20	
1,2,3-Trichloropropane	0.0117	0.0023	mg/Kg wet	0.0113		104	70-130	4.34	20	
1,2,4-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.6	70-130	4.67	20	
1,3,5-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.4	70-130	2.26	20	
Vinyl Chloride	0.00801	0.0023	mg/Kg wet	0.0113		70.7	70-130	11.5	20	
m+p Xylene	0.0220	0.0023	mg/Kg wet	0.0227		97.2	70-130	1.61	20	
o-Xylene	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130	2.20	20	
Surrogate: 1,2-Dichloroethane-d4	0.0268		mg/Kg wet	0.0283		94.7	70-130			
Surrogate: Toluene-d8	0.0281		mg/Kg wet	0.0283		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0282		mg/Kg wet	0.0283		99.4	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 B113760 - SW-846 5035

Blank (B113760-BLK1)

Prepared: 01/19/15 Analyzed: 01/20/15

Trichloroethylene	ND	0.051	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	1.07		mg/Kg wet	1.33		80.3	70-130			
Surrogate: Toluene-d8	1.12		mg/Kg wet	1.33		83.9	70-130			
Surrogate: 4-Bromofluorobenzene	1.13		mg/Kg wet	1.33		85.1	70-130			

LCS (B113760-BS1)

Prepared & Analyzed: 01/19/15

Trichloroethylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0265		mg/Kg wet	0.0283		93.5	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			

LCS Dup (B113760-BSD1)

Prepared: 01/19/15 Analyzed: 01/20/15

Trichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		96.4	70-130	9.67	20	
Surrogate: 1,2-Dichloroethane-d4	0.0266		mg/Kg wet	0.0283		94.0	70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0288		mg/Kg wet	0.0283		102	70-130			

Batch B113795 - SW-846 5035

Blank (B113795-BLK1)

Prepared & Analyzed: 01/20/15

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.010	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	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 B113795 - SW-846 5035

Blank (B113795-BLK1)

Prepared & Analyzed: 01/20/15

trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.010	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							

Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0482		mg/Kg wet	0.0500		96.3	70-130			

LCS (B113795-BS1)

Prepared & Analyzed: 01/20/15

Acetone	0.323	0.10	mg/Kg wet	0.200		161 *	40-160			L-07 †
tert-Amyl Methyl Ether (TAME)	0.0199	0.0010	mg/Kg wet	0.0200		99.5	70-130			
Benzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromochloromethane	0.0245	0.0020	mg/Kg wet	0.0200		122	70-130			
Bromodichloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromoform	0.0176	0.010	mg/Kg wet	0.0200		87.8	70-130			
Bromomethane	0.0115	0.010	mg/Kg wet	0.0200		57.7	40-160			L-14 †
2-Butanone (MEK)	0.243	0.040	mg/Kg wet	0.200		121	40-160			†

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
<b>Batch B113795 - SW-846 5035</b>										
<b>LCS (B113795-BS1)</b>										
Prepared & Analyzed: 01/20/15										
n-Butylbenzene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
sec-Butylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
tert-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Carbon Disulfide	0.0210	0.0060	mg/Kg wet	0.0200		105	70-130			
Carbon Tetrachloride	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Chlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Chlorodibromomethane	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130			
Chloroethane	0.0233	0.010	mg/Kg wet	0.0200		117	70-130			
Chloroform	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0152	0.010	mg/Kg wet	0.0200		76.2	40-160			†
2-Chlorotoluene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
4-Chlorotoluene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
1,2-Dibromoethane (EDB)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,4-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Dichlorodifluoromethane (Freon 12)	0.0179	0.010	mg/Kg wet	0.0200		89.4	40-160			†
1,1-Dichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1-Dichloroethylene	0.0250	0.0040	mg/Kg wet	0.0200		125	70-130			
cis-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
trans-1,2-Dichloroethylene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
1,2-Dichloropropane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichloropropane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
2,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloropropene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
cis-1,3-Dichloropropene	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130			
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Diethyl Ether	0.0230	0.010	mg/Kg wet	0.0200		115	70-130			
Diisopropyl Ether (DIPE)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130			
1,4-Dioxane	0.198	0.10	mg/Kg wet	0.200		98.9	40-160			V-16 †
Ethylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Hexachlorobutadiene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
2-Hexanone (MBK)	0.232	0.020	mg/Kg wet	0.200		116	40-160			†
Isopropylbenzene (Cumene)	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
p-Isopropyltoluene (p-Cymene)	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130			
Methylene Chloride	0.0218	0.010	mg/Kg wet	0.0200		109	70-130			
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.200		103	40-160			†
Naphthalene	0.0197	0.010	mg/Kg wet	0.0200		98.7	70-130			
n-Propylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Styrene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,2,2-Tetrachloroethane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Tetrachloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Tetrahydrofuran	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0192	0.0040	mg/Kg wet	0.0200		96.1	70-130			
1,2,4-Trichlorobenzene	0.0194	0.0040	mg/Kg wet	0.0200		96.9	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
<b>Batch B113795 - SW-846 5035</b>										
<b>LCS (B113795-BS1)</b>										
Prepared & Analyzed: 01/20/15										
1,1,1-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,2-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichlorofluoromethane (Freon 11)	0.0246	0.010	mg/Kg wet	0.0200		123	70-130			
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2,4-Trimethylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,3,5-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Vinyl Chloride	0.0200	0.010	mg/Kg wet	0.0200		100	70-130			
m+p Xylene	0.0436	0.0040	mg/Kg wet	0.0400		109	70-130			
o-Xylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0494		mg/Kg wet	0.0500		98.8	70-130			
<b>LCS Dup (B113795-BSD1)</b>										
Prepared & Analyzed: 01/20/15										
Acetone	0.268	0.10	mg/Kg wet	0.200		134	40-160	18.5	20	†
tert-Amyl Methyl Ether (TAME)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	4.90	20	
Benzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	5.57	20	
Bromobenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	3.52	20	
<b>Bromochloromethane</b>	0.0270	0.0020	mg/Kg wet	0.0200		<b>135</b>	* 70-130	9.64	20	L-07
Bromodichloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	2.55	20	
Bromoform	0.0187	0.010	mg/Kg wet	0.0200		93.4	70-130	6.18	20	
Bromomethane	0.0135	0.010	mg/Kg wet	0.0200		67.3	40-160	15.4	20	L-14 †
2-Butanone (MEK)	0.227	0.040	mg/Kg wet	0.200		113	40-160	6.73	20	†
n-Butylbenzene	0.0241	0.0020	mg/Kg wet	0.0200		121	70-130	3.54	20	
sec-Butylbenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	2.69	20	
tert-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	2.81	20	
tert-Butyl Ethyl Ether (TBEE)	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130	4.66	20	
Carbon Disulfide	0.0219	0.0060	mg/Kg wet	0.0200		110	70-130	4.20	20	
Carbon Tetrachloride	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.71	20	
Chlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	3.72	20	
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	4.32	20	
Chloroethane	0.0241	0.010	mg/Kg wet	0.0200		120	70-130	3.29	20	
Chloroform	0.0228	0.0040	mg/Kg wet	0.0200		114	70-130	3.66	20	
Chloromethane	0.0161	0.010	mg/Kg wet	0.0200		80.6	40-160	5.61	20	†
2-Chlorotoluene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	3.88	20	
4-Chlorotoluene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	3.79	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	9.88	20	
1,2-Dibromoethane (EDB)	0.0225	0.0010	mg/Kg wet	0.0200		112	70-130	6.62	20	
Dibromomethane	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	6.91	20	
1,2-Dichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	2.91	20	
1,3-Dichlorobenzene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	5.57	20	
1,4-Dichlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	4.60	20	
Dichlorodifluoromethane (Freon 12)	0.0190	0.010	mg/Kg wet	0.0200		95.0	40-160	6.07	20	†
1,1-Dichloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	4.02	20	
1,2-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	3.13	20	
1,1-Dichloroethylene	0.0258	0.0040	mg/Kg wet	0.0200		129	70-130	3.15	20	
cis-1,2-Dichloroethylene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.93	20	
trans-1,2-Dichloroethylene	0.0249	0.0020	mg/Kg wet	0.0200		124	70-130	5.37	20	
1,2-Dichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	5.03	20	
1,3-Dichloropropane	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130	6.12	20	
2,2-Dichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.12	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
<b>Batch B113795 - SW-846 5035</b>										
<b>LCS Dup (B113795-BSD1)</b>										
Prepared & Analyzed: 01/20/15										
1,1-Dichloropropene	0.0249	0.0020	mg/Kg wet	0.0200		124	70-130	5.19	20	
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130	3.40	20	
trans-1,3-Dichloropropene	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130	4.56	20	
Diethyl Ether	0.0248	0.010	mg/Kg wet	0.0200		124	70-130	7.54	20	
Diisopropyl Ether (DIPE)	0.0227	0.0010	mg/Kg wet	0.0200		113	70-130	4.24	20	
1,4-Dioxane	0.200	0.10	mg/Kg wet	0.200		100	40-160	1.19	20	V-16 †
Ethylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	2.80	20	
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.81	20	
2-Hexanone (MBK)	0.227	0.020	mg/Kg wet	0.200		113	40-160	2.18	20	†
Isopropylbenzene (Cumene)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	3.50	20	
p-Isopropyltoluene (p-Cymene)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	3.44	20	
Methyl tert-Butyl Ether (MTBE)	0.0229	0.0040	mg/Kg wet	0.0200		114	70-130	6.78	20	
Methylene Chloride	0.0232	0.010	mg/Kg wet	0.0200		116	70-130	6.39	20	
4-Methyl-2-pentanone (MIBK)	0.219	0.020	mg/Kg wet	0.200		109	40-160	6.33	20	†
Naphthalene	0.0216	0.010	mg/Kg wet	0.0200		108	70-130	8.91	20	
n-Propylbenzene	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	3.73	20	
Styrene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	2.84	20	
1,1,1,2-Tetrachloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	4.35	20	
1,1,2,2-Tetrachloroethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	7.76	20	
Tetrachloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	2.07	20	
Tetrahydrofuran	0.0217	0.010	mg/Kg wet	0.0200		109	70-130	1.91	20	
Toluene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	3.19	20	
1,2,3-Trichlorobenzene	0.0210	0.0040	mg/Kg wet	0.0200		105	70-130	8.66	20	
1,2,4-Trichlorobenzene	0.0203	0.0040	mg/Kg wet	0.0200		101	70-130	4.54	20	
1,1,1-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	4.45	20	
1,1,2-Trichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	4.52	20	
Trichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	4.89	20	
Trichlorofluoromethane (Freon 11)	0.0256	0.010	mg/Kg wet	0.0200		128	70-130	4.22	20	
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	4.93	20	
1,2,4-Trimethylbenzene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	3.67	20	
1,3,5-Trimethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	3.73	20	
Vinyl Chloride	0.0210	0.010	mg/Kg wet	0.0200		105	70-130	4.78	20	
m+p Xylene	0.0453	0.0040	mg/Kg wet	0.0400		113	70-130	3.83	20	
o-Xylene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.65	20	
Surrogate: 1,2-Dichloroethane-d4	0.0512		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.1	70-130			

**Batch B113850 - SW-846 5035**

**Blank (B113850-BLK1)**

Prepared & Analyzed: 01/21/15

Trichloroethylene	ND	0.051	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	1.15		mg/Kg wet	1.33		86.3	70-130			
Surrogate: Toluene-d8	1.20		mg/Kg wet	1.33		90.0	70-130			
Surrogate: 4-Bromofluorobenzene	1.23		mg/Kg wet	1.33		92.2	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
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**Batch B113850 - SW-846 5035**

**LCS (B113850-BS1)**

Prepared & Analyzed: 01/21/15

Trichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0265		mg/Kg wet	0.0283		93.4	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0286		mg/Kg wet	0.0283		101	70-130			

**LCS Dup (B113850-BSD1)**

Prepared & Analyzed: 01/21/15

Trichloroethylene	0.0107	0.0011	mg/Kg wet	0.0113		94.3	70-130	4.96	20	
Surrogate: 1,2-Dichloroethane-d4	0.0264		mg/Kg wet	0.0283		93.1	70-130			
Surrogate: Toluene-d8	0.0279		mg/Kg wet	0.0283		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			

**Batch B113862 - SW-846 5035**

**Blank (B113862-BLK1)**

Prepared & Analyzed: 01/21/15

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.010	mg/Kg wet							L-04, V-05
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							V-05
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							V-05
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	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
<b>Batch B113862 - SW-846 5035</b>										
<b>Blank (B113862-BLK1)</b>										
Prepared & Analyzed: 01/21/15										
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.010	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							V-05
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							R-05
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0499		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0462		mg/Kg wet	0.0500		92.4	70-130			
<b>LCS (B113862-BS1)</b>										
Prepared & Analyzed: 01/21/15										
Acetone	0.288	0.10	mg/Kg wet	0.200		144	40-160			L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0186	0.0010	mg/Kg wet	0.0200		92.9	70-130			
Benzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromochloromethane	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
<b>Bromoform</b>	0.0135	0.010	mg/Kg wet	0.0200		67.4 *	70-130			L-04, V-05
<b>Bromomethane</b>	0.00738	0.010	mg/Kg wet	0.0200		36.9 *	40-160			L-07A, L-14, R-05 †
2-Butanone (MEK)	0.222	0.040	mg/Kg wet	0.200		111	40-160			†
n-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
sec-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0199	0.0010	mg/Kg wet	0.0200		99.7	70-130			
Carbon Disulfide	0.0198	0.0060	mg/Kg wet	0.0200		98.9	70-130			
Carbon Tetrachloride	0.0150	0.0020	mg/Kg wet	0.0200		75.1	70-130			V-05

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
<b>Batch B113862 - SW-846 5035</b>										
<b>LCS (B113862-BS1)</b>										
Prepared & Analyzed: 01/21/15										
Chlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Chlorodibromomethane	0.0154	0.0010	mg/Kg wet	0.0200		77.1	70-130			V-05
Chloroethane	0.0227	0.010	mg/Kg wet	0.0200		114	70-130			
Chloroform	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130			
Chloromethane	0.0133	0.010	mg/Kg wet	0.0200		66.7	40-160			L-14 †
2-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
4-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0165	0.0020	mg/Kg wet	0.0200		82.4	70-130			V-05
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Dibromomethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,4-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Dichlorodifluoromethane (Freon 12)	0.0124	0.010	mg/Kg wet	0.0200		62.2	40-160			L-14 †
1,1-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1-Dichloroethylene	0.0240	0.0040	mg/Kg wet	0.0200		120	70-130			
cis-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
trans-1,2-Dichloroethylene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130			
2,2-Dichloropropane	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
1,1-Dichloropropene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
cis-1,3-Dichloropropene	0.0172	0.0010	mg/Kg wet	0.0200		86.1	70-130			
trans-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.5	70-130			
Diethyl Ether	0.0230	0.010	mg/Kg wet	0.0200		115	70-130			
Diisopropyl Ether (DIPE)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
1,4-Dioxane	0.178	0.10	mg/Kg wet	0.200		88.8	40-160			V-16 †
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Hexachlorobutadiene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
2-Hexanone (MBK)	0.216	0.020	mg/Kg wet	0.200		108	40-160			†
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0207	0.0040	mg/Kg wet	0.0200		104	70-130			
Methylene Chloride	0.0216	0.010	mg/Kg wet	0.0200		108	70-130			
4-Methyl-2-pentanone (MIBK)	0.211	0.020	mg/Kg wet	0.200		105	40-160			†
Naphthalene	0.0182	0.010	mg/Kg wet	0.0200		91.2	70-130			V-05
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Styrene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,1,2-Tetrachloroethane	0.0161	0.0020	mg/Kg wet	0.0200		80.3	70-130			V-05
1,1,2,2-Tetrachloroethane	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Tetrahydrofuran	0.0224	0.010	mg/Kg wet	0.0200		112	70-130			R-05
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
1,2,3-Trichlorobenzene	0.0177	0.0040	mg/Kg wet	0.0200		88.4	70-130			V-05
1,2,4-Trichlorobenzene	0.0175	0.0040	mg/Kg wet	0.0200		87.7	70-130			
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0227	0.010	mg/Kg wet	0.0200		114	70-130			
1,2,3-Trichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2,4-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	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
<b>Batch B113862 - SW-846 5035</b>										
<b>LCS (B113862-BS1)</b>										
Prepared & Analyzed: 01/21/15										
1,3,5-Trimethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Vinyl Chloride	0.0180	0.010	mg/Kg wet	0.0200		90.0	70-130			
m+p Xylene	0.0418	0.0040	mg/Kg wet	0.0400		104	70-130			
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0514		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			
<b>LCS Dup (B113862-BSD1)</b>										
Prepared & Analyzed: 01/21/15										
Acetone	0.273	0.10	mg/Kg wet	0.200		136	40-160	5.39	20	L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0190	0.0010	mg/Kg wet	0.0200		94.8	70-130	2.02	20	
Benzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	4.86	20	
Bromobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	0.388	20	
Bromochloromethane	0.0253	0.0020	mg/Kg wet	0.0200		127	70-130	4.94	20	
Bromodichloromethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	2.62	20	
<b>Bromoform</b>	0.0135	0.010	mg/Kg wet	0.0200		67.7 *	70-130	0.444	20	V-05, L-04
Bromomethane	0.0115	0.010	mg/Kg wet	0.0200		57.7	40-160	44.0 *	20	R-05 †
2-Butanone (MEK)	0.208	0.040	mg/Kg wet	0.200		104	40-160	6.50	20	†
n-Butylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.796	20	
sec-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	0.981	20	
tert-Butylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.79	20	
tert-Butyl Ethyl Ether (TBEE)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	1.10	20	
Carbon Disulfide	0.0211	0.0060	mg/Kg wet	0.0200		105	70-130	6.27	20	
Carbon Tetrachloride	0.0161	0.0020	mg/Kg wet	0.0200		80.3	70-130	6.69	20	V-05
Chlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.388	20	
Chlorodibromomethane	0.0152	0.0010	mg/Kg wet	0.0200		76.1	70-130	1.31	20	V-05
Chloroethane	0.0235	0.010	mg/Kg wet	0.0200		118	70-130	3.46	20	
Chloroform	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130	4.03	20	
Chloromethane	0.0143	0.010	mg/Kg wet	0.0200		71.3	40-160	6.67	20	†
2-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.69	20	
4-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.07	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130	0.731	20	V-05
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130	4.46	20	
Dibromomethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.79	20	
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.382	20	
1,3-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.86	20	
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.32	20	
Dichlorodifluoromethane (Freon 12)	0.0131	0.010	mg/Kg wet	0.0200		65.3	40-160	4.86	20	L-14 †
1,1-Dichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	4.29	20	
1,2-Dichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	3.20	20	
1,1-Dichloroethylene	0.0255	0.0040	mg/Kg wet	0.0200		127	70-130	6.07	20	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	3.78	20	
trans-1,2-Dichloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	4.94	20	
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.96	20	
1,3-Dichloropropane	0.0196	0.0010	mg/Kg wet	0.0200		97.8	70-130	0.916	20	
2,2-Dichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130	1.85	20	
1,1-Dichloropropene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	3.84	20	
cis-1,3-Dichloropropene	0.0175	0.0010	mg/Kg wet	0.0200		87.6	70-130	1.73	20	
trans-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		93.8	70-130	0.743	20	
Diethyl Ether	0.0243	0.010	mg/Kg wet	0.0200		122	70-130	5.50	20	
Diisopropyl Ether (DIPE)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	2.14	20	
1,4-Dioxane	0.185	0.10	mg/Kg wet	0.200		92.4	40-160	3.94	20	V-16 †

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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
<b>Batch B113862 - SW-846 5035</b>										
<b>LCS Dup (B113862-BSD1)</b>										
Prepared & Analyzed: 01/21/15										
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	2.13	20	
Hexachlorobutadiene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	0.200	20	
2-Hexanone (MBK)	0.201	0.020	mg/Kg wet	0.200		101	40-160	7.29	20	†
Isopropylbenzene (Cumene)	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	1.42	20	
p-Isopropyltoluene (p-Cymene)	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	0.814	20	
Methyl tert-Butyl Ether (MTBE)	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	0.0964	20	
Methylene Chloride	0.0227	0.010	mg/Kg wet	0.0200		114	70-130	5.06	20	
4-Methyl-2-pentanone (MIBK)	0.198	0.020	mg/Kg wet	0.200		99.0	40-160	6.26	20	†
Naphthalene	0.0176	0.010	mg/Kg wet	0.0200		87.9	70-130	3.69	20	V-05
n-Propylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.30	20	
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.18	20	
1,1,1,2-Tetrachloroethane	0.0168	0.0020	mg/Kg wet	0.0200		83.9	70-130	4.38	20	V-05
1,1,1,2,2-Tetrachloroethane	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130	5.60	20	
Tetrachloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	0.589	20	
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		89.9	70-130	21.8 *	20	R-05
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.29	20	
1,2,3-Trichlorobenzene	0.0172	0.0040	mg/Kg wet	0.0200		85.8	70-130	2.99	20	V-05
1,2,4-Trichlorobenzene	0.0170	0.0040	mg/Kg wet	0.0200		85.2	70-130	2.89	20	
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	5.76	20	
1,1,2-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130	2.09	20	
Trichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	2.29	20	
Trichlorofluoromethane (Freon 11)	0.0245	0.010	mg/Kg wet	0.0200		122	70-130	7.45	20	
1,2,3-Trichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	3.97	20	
1,2,4-Trimethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	1.46	20	
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.16	20	
Vinyl Chloride	0.0191	0.010	mg/Kg wet	0.0200		95.5	70-130	5.93	20	
m+p Xylene	0.0427	0.0040	mg/Kg wet	0.0400		107	70-130	2.13	20	
o-Xylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.07	20	
Surrogate: 1,2-Dichloroethane-d4	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0485		mg/Kg wet	0.0500		97.0	70-130			

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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 B113792 - % Solids**

**Duplicate (B113792-DUP3)**

**Source: 15A0471-01**

Prepared: 01/20/15 Analyzed: 01/21/15

% Solids	94.8		% Wt		94.1			0.741	20	
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## 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-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-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-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.
S-03	Surrogate recovery outside of control limits due to suspected sample matrix interference.
S-16	Surrogate recovery is outside of control limits. Reanalysis is not required if % solids is <75% and recovery is >10%.
S-19	Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.
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 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methyl tert-Butyl Ether (MTBE)	NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	ME
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

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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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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  
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# CHAIN OF CUSTODY RECORD

## 15A0471

39 Spruce Street  
 East longmeadow, MA 01028

Page 1 of 1

Rev 04.05.12  
 918-970-5600  
 617-462-8090

Company Name: TRC  
 Address: 650 SUFFOLK ST  
 LOWELL MA  
 Attention: DAVID SULLIVAN  
 Project Location: 102 GREENWOODS AVE NEW BEDFORD  
 Sampled By: JASON FIERO

Project # 115058  
 Client PO#  
 DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE  
 Fax #  
 Email:  
 Format:  PDF  EXCEL  GIS  OTHER  
 "Enhanced Data Package"

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code	Conc Code
		Beginning Date/Time	Ending Date/Time				
01	VPEX-1 5-6'	1/14/15	9:40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
02	VPEX-2 6-7'	1/16/15	9:50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
03	VPEX-3 6-7'	1/16/15	10:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
04	VPEX-4 6-7'	1/16/15	10:10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
05	VPEX-5 5-6'	1/16/15	10:20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
06	VPEX-B1 7'	1/16/15	10:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
07	VPEX-B2 7'	1/16/15	10:40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
08	DUP-1	1/16/15		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	
09	TRIP BLANK						

Project Proposal Provided? (for billing purposes)  
 Yes  proposal date

ANALYSIS REQUESTED

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

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

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

Turnaround:  7-Day  10-Day  Other 5 DAY  
 RUSH  24-Hr  48-Hr  72-Hr  14-Day  
 Require lab approval

Detection Limit Requirements  
 Massachusetts: MCR  
 Connecticut: \_\_\_\_\_  
 Other: \_\_\_\_\_



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. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.  
 East Longmeadow, MA. 01028  
 P: 413-525-2332  
 F: 413-525-6405  
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### Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: JDL DATE: 1/16/15

- 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 3.7

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		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	8
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	27	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol 9  
 # Bisulfate 18 # DI Water \_\_\_\_\_  
 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

Doc# 277  
 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.	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.	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: 1/16/15 1530

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15A0471

Project Location: 102 Greenwood ARP New Bedford, MA

RTN:

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

15A0471-01 thru 15A0471-09

Matrices: Soil

**CAM Protocol (check all that below)**

8260 VOC CAM II A (X)	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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

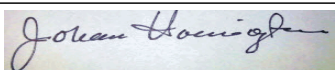
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 01/23/15



January 26, 2015

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

Project Location: ARP New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0688

Enclosed are results of analyses for samples received by the laboratory on January 22, 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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TRC Environmental Corporation - Lowell  
 650 Suffolk Street  
 Lowell, MA 01852  
 ATTN: David Sullivan

REPORT DATE: 1/26/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0688

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
2PEX_2 5-7	15A0688-01	Soil		SM 2540G SW-846 8082A	
2PEX_3 5-7	15A0688-02	Soil		SM 2540G SW-846 8082A	
2PEX_4 5-7	15A0688-03	Soil		SM 2540G SW-846 8082A	
2PEX_5 5-7	15A0688-04	Soil		SM 2540G 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.

SW-846 8082A

---

**Qualifications:****MS-21**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

**Analyte & Samples(s) Qualified:****Aroclor-1016 [2C]**

B114033-MS1, B114033-MSD1

**Aroclor-1260**

B114033-MSD1

**Aroclor-1260 [2C]**

B114033-MSD1

---

**O-32**

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

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

15A0688-03[2PEX\_4 5-7]

---

**S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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

15A0688-02[2PEX\_3 5-7]

**Decachlorobiphenyl [2C]**

15A0688-02[2PEX\_3 5-7]

**Tetrachloro-m-xylene**

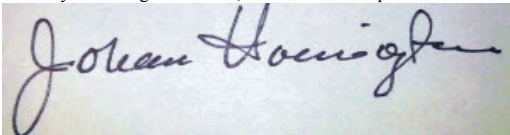
15A0688-02[2PEX\_3 5-7]

**Tetrachloro-m-xylene [2C]**

15A0688-02[2PEX\_3 5-7]

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

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Field Sample #: 2PEX\_2 5-7

Sampled: 1/21/2015 10:50

Sample ID: 15A0688-01

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	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1248 [1]	ND	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1254 [1]	1.6	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1260 [2]	0.71	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	10		SW-846 8082A	1/22/15	1/26/15 5:44	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.7	30-150					1/26/15 5:44	
Decachlorobiphenyl [2]		108	30-150					1/26/15 5:44	
Tetrachloro-m-xylene [1]		79.7	30-150					1/26/15 5:44	
Tetrachloro-m-xylene [2]		87.9	30-150					1/26/15 5:44	

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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Field Sample #: 2PEX\_2 5-7

Sampled: 1/21/2015 10:50

Sample ID: 15A0688-01

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	67.9		% Wt	1		SM 2540G	1/23/15	1/26/15 8:49	MRL

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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Field Sample #: 2PEX\_3 5-7

Sampled: 1/21/2015 11:00

Sample ID: 15A0688-02

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	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1221 [1]	ND	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1232 [1]	ND	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1242 [1]	ND	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1248 [1]	ND	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1254 [1]	47	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1260 [1]	ND	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1262 [1]	ND	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Aroclor-1268 [1]	ND	6.9	mg/Kg dry	250		SW-846 8082A	1/22/15	1/26/15 5:57	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			1/26/15 5:57	
Decachlorobiphenyl [2]		*	30-150		S-01			1/26/15 5:57	
Tetrachloro-m-xylene [1]		*	30-150		S-01			1/26/15 5:57	
Tetrachloro-m-xylene [2]		*	30-150		S-01			1/26/15 5:57	

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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Field Sample #: 2PEX\_3 5-7

Sampled: 1/21/2015 11:00

Sample ID: 15A0688-02

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	68.5		% Wt	1		SM 2540G	1/23/15	1/26/15 8:49	MRL



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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Field Sample #: 2PEX\_4 5-7

Sampled: 1/21/2015 11:10

Sample ID: 15A0688-03

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	1/22/15	1/25/15 14:38	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:38	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.0	30-150					1/25/15 14:38	
Decachlorobiphenyl [2]		92.7	30-150					1/25/15 14:38	
Tetrachloro-m-xylene [1]		69.1	30-150					1/25/15 14:38	
Tetrachloro-m-xylene [2]		75.8	30-150					1/25/15 14:38	

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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Sampled: 1/21/2015 11:10

Field Sample #: 2PEX\_4 5-7

Sample ID: 15A0688-03

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	96.1		% Wt	1		SM 2540G	1/23/15	1/26/15 8:49	MRL

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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Field Sample #: 2PEX\_5 5-7

Sampled: 1/21/2015 11:20

Sample ID: 15A0688-04

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	1/22/15	1/25/15 14:50	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Aroclor-1254 [2]	0.93	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/22/15	1/25/15 14:50	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.8	30-150					1/25/15 14:50	
Decachlorobiphenyl [2]		94.5	30-150					1/25/15 14:50	
Tetrachloro-m-xylene [1]		78.9	30-150					1/25/15 14:50	
Tetrachloro-m-xylene [2]		85.9	30-150					1/25/15 14:50	

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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0688

Date Received: 1/22/2015

Field Sample #: 2PEX\_5 5-7

Sampled: 1/21/2015 11:20

Sample ID: 15A0688-04

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	96.4		% Wt	1		SM 2540G	1/23/15	1/26/15 8:49	MRL

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

Lab Number [Field ID]	Batch	Date
15A0688-01 [2PEX_2 5-7]	B114067	01/23/15
15A0688-02 [2PEX_3 5-7]	B114067	01/23/15
15A0688-03 [2PEX_4 5-7]	B114067	01/23/15
15A0688-04 [2PEX_5 5-7]	B114067	01/23/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0688-01 [2PEX_2 5-7]	B114033	10.3	10.0	01/22/15
15A0688-02 [2PEX_3 5-7]	B114033	10.6	10.0	01/22/15
15A0688-03 [2PEX_4 5-7]	B114033	10.3	10.0	01/22/15
15A0688-04 [2PEX_5 5-7]	B114033	10.4	10.0	01/22/15

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
<b>Batch B114033 - SW-846 3540C</b>										
<b>Blank (B114033-BLK1)</b>										
Prepared: 01/22/15 Analyzed: 01/25/15										
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	0.173		mg/Kg wet	0.200		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.171		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.200		86.0	30-150			
<b>LCS (B114033-BS1)</b>										
Prepared: 01/22/15 Analyzed: 01/25/15										
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		97.2	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		98.6	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		93.7	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140			
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg wet	0.200		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.7	30-150			
<b>LCS Dup (B114033-BSD1)</b>										
Prepared: 01/22/15 Analyzed: 01/25/15										
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		116	40-140	17.2	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	8.53	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		100	40-140	6.94	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	5.45	30	
Surrogate: Decachlorobiphenyl	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.200		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		92.0	30-150			

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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
<b>Batch B114033 - SW-846 3540C</b>										
<b>Matrix Spike (B114033-MS1)</b>										
		<b>Source: 15A0688-01</b>			Prepared: 01/22/15 Analyzed: 01/25/15					
Aroclor-1016	0.36	0.14	mg/Kg dry	0.289	ND	123	40-140			
<b>Aroclor-1016 [2C]</b>	0.56	0.14	mg/Kg dry	0.289	ND	<b>192</b> *	40-140			MS-21
Aroclor-1260	0.98	0.14	mg/Kg dry	0.289	0.60	134	40-140			
Aroclor-1260 [2C]	1.1	0.14	mg/Kg dry	0.289	0.71	139	40-140			
Surrogate: Decachlorobiphenyl	0.227		mg/Kg dry	0.289		78.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.288		mg/Kg dry	0.289		99.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.218		mg/Kg dry	0.289		75.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.235		mg/Kg dry	0.289		81.3	30-150			
<b>Matrix Spike Dup (B114033-MSD1)</b>										
		<b>Source: 15A0688-01</b>			Prepared: 01/22/15 Analyzed: 01/25/15					
Aroclor-1016	0.36	0.15	mg/Kg dry	0.292	ND	124	40-140	1.73	50	
<b>Aroclor-1016 [2C]</b>	0.63	0.15	mg/Kg dry	0.292	ND	<b>217</b> *	40-140	12.8	50	MS-21
<b>Aroclor-1260</b>	1.0	0.15	mg/Kg dry	0.292	0.60	<b>153</b> *	40-140	5.86	50	MS-21
<b>Aroclor-1260 [2C]</b>	1.2	0.15	mg/Kg dry	0.292	0.71	<b>157</b> *	40-140	4.85	50	MS-21
Surrogate: Decachlorobiphenyl	0.239		mg/Kg dry	0.292		82.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.310		mg/Kg dry	0.292		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.210		mg/Kg dry	0.292		72.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.228		mg/Kg dry	0.292		78.1	30-150			

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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 B114067 - % Solids**

**Duplicate (B114067-DUP1)**

**Source: 15A0688-01**

Prepared: 01/23/15 Analyzed: 01/26/15

% Solids	68.6		% Wt		67.9			1.03	20	
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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

2PEX\_2 5-7

*SW-846 8082A*

Lab Sample ID: 15A0688-01 Date(s) Analyzed: 01/26/2015 01/26/2015

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	1.6	
	2	0.00	-0.03	0.03	1.5	5.8
Aroclor-1260	1	0.00	-0.03	0.03	0.60	
	2	0.00	-0.03	0.03	0.71	17.3

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

2PEX\_3 5-7

Lab Sample ID: 15A0688-02 Date(s) Analyzed: 01/26/2015 01/26/2015

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	47	
	2	0.00	-0.03	0.03	46	2.6

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

**2PEX\_5 5-7**

Lab Sample ID: 15A0688-04 Date(s) Analyzed: 01/25/2015 01/25/2015

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	0.90	
	2	0.00	-0.03	0.03	0.93	3.2

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

<b>LCS</b>
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Lab Sample ID:                     B114033-BS1                                          Date(s) Analyzed:           01/25/2015                     01/25/2015          

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	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.20	3
Aroclor-1260	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.20	7

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

LCS Dup

Lab Sample ID: B114033-BSD1 Date(s) Analyzed: 01/25/2015 01/25/2015

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	-0.03	0.03	0.23	
	2	0.00	-0.03	0.03	0.21	10
Aroclor-1260	1	0.00	-0.03	0.03	0.20	
	2	0.00	-0.03	0.03	0.21	4

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

**Matrix Spike**

Lab Sample ID: B114033-MS1 Date(s) Analyzed: 01/25/2015 01/25/2015

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	-0.03	0.03	0.36	
	2	0.00	-0.03	0.03	0.56	44
Aroclor-1260	1	0.00	-0.03	0.03	0.98	
	2	0.00	-0.03	0.03	1.1	11

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

**Matrix Spike Dup**

Lab Sample ID:                     B114033-MSD1                                          Date(s) Analyzed:           01/25/2015                     01/25/2015          

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	-0.03	0.03	0.36	
	2	0.00	-0.03	0.03	0.63	54
Aroclor-1260	1	0.00	-0.03	0.03	1.0	
	2	0.00	-0.03	0.03	1.2	14

**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.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
O-32	A dilution was performed as part of the standard analytical procedure.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.



**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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: TRC RECEIVED BY: KB DATE: 1/22/15

- 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 3.5°

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		8 oz <input checked="" type="radio"/> amber/clear jar	<u>6</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:

2 PEX-2 - MS/MSD

40 mL vials: # HCl \_\_\_\_\_ # 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**

<u>Question</u>	<u>Answer (True/False)</u>		<u>Comment</u>
	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:**

KB

**Date/Time:****Date/Time:**1/22/15  
16:30

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15A0688

Project Location: ARP New Bedford

RTN:

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

15A0688-01 thru 15A0688-04

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
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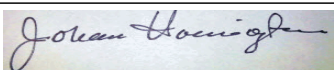
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 01/26/15

January 28, 2015

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

Project Location: 102 Greenwood, ARP New Bedford, MA  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0623

Enclosed are results of analyses for samples received by the laboratory on January 21, 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: David Sullivan

REPORT DATE: 1/28/2015

PURCHASE ORDER NUMBER: 76363

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0623

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

PROJECT LOCATION: 102 Greenwood, ARP New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
VPEX_B3 11-12	15A0623-01	Soil		SM 2540G SW-846 8260C	
VPEX_B5 15	15A0623-02	Soil		SM 2540G SW-846 8260C	
VPEX_B4 19	15A0623-03	Soil		SM 2540G 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.

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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:****1,1-Dichloroethylene**

B114098-BS1, B114098-BSD1

**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:****Bromoform**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-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:****1,2-Dibromo-3-chloropropane (DB)**

B114098-BS1

**2,2-Dichloropropane**

B114098-BS1

**Bromochloromethane**

B114098-BSD1

**Carbon Tetrachloride**

B114098-BS1

**Trichlorofluoromethane (Freon 11)**

B114098-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:****Bromomethane**

B114098-BSD1

**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:****Bromomethane**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-BSD1

**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:****1,1,1,2-Tetrachloroethane**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-BSD1

**1,2-Dibromo-3-chloropropane (DB)**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-BSD1

**2,2-Dichloropropane**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-BSD1

**Bromoform**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-BSD1

**Carbon Tetrachloride**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-BSD1

**Chlorodibromomethane**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-BSD1

**Dichlorodifluoromethane (Freon 1)**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-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**

15A0623-01[VPEX\_B3 11-12], 15A0623-02[VPEX\_B5 15], 15A0623-03[VPEX\_B4 19], B114098-BLK1, B114098-BS1, B114098-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**

B114098-BS1, B114098-BSD1

**Bromochloromethane**

B114098-BS1, B114098-BSD1

**Diethyl Ether**

B114098-BS1, B114098-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.



Tod E. Kopycinski  
Laboratory Director

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

Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B3 11-12

Sampled: 1/20/2015 10:00

Sample ID: 15A0623-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Bromoform	ND	0.0055	mg/Kg dry	1	L-04, V-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Bromomethane	ND	0.0055	mg/Kg dry	1	R-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Carbon Disulfide	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Chlorodibromomethane	ND	0.00055	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Chloroethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Chloromethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2-Dibromoethane (EDB)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0055	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,3-Dichloropropane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
cis-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
trans-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Diethyl Ether	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Diisopropyl Ether (DIPE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,4-Dioxane	ND	0.055	mg/Kg dry	1	V-16	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF

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Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B3 11-12

Sampled: 1/20/2015 10:00

Sample ID: 15A0623-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Methylene Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Naphthalene	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Tetrahydrofuran	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Trichloroethylene	0.023	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
Vinyl Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.9	70-130	1/23/15 10:12
Toluene-d8	100	70-130	1/23/15 10:12
4-Bromofluorobenzene	89.0	70-130	1/23/15 10:12

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Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B3 11-12

Sampled: 1/20/2015 10:00

Sample ID: 15A0623-01

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	94.3		% Wt	1		SM 2540G	1/26/15	1/28/15 10:01	MXG

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

Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B5 15

Sampled: 1/20/2015 13:00

Sample ID: 15A0623-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Bromoform	ND	0.0071	mg/Kg dry	1	L-04, V-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Bromomethane	ND	0.0071	mg/Kg dry	1	R-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Chlorodibromomethane	ND	0.00071	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Chloroethane	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Chloromethane	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0071	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,3-Dichloropropane	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
cis-1,3-Dichloropropene	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
trans-1,3-Dichloropropene	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Diethyl Ether	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Diisopropyl Ether (DIPE)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,4-Dioxane	ND	0.071	mg/Kg dry	1	V-16	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF

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

Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B5 15

Sampled: 1/20/2015 13:00

Sample ID: 15A0623-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Methylene Chloride	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Naphthalene	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Tetrahydrofuran	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2,4-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
Vinyl Chloride	ND	0.0071	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 10:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	1/23/15 10:40
Toluene-d8	100	70-130	1/23/15 10:40
4-Bromofluorobenzene	89.7	70-130	1/23/15 10:40



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

Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B5 15

Sampled: 1/20/2015 13:00

Sample ID: 15A0623-02

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	86.0		% Wt	1		SM 2540G	1/26/15	1/28/15 10:01	MXG

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

Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B4 19

Sampled: 1/20/2015 13:20

Sample ID: 15A0623-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Bromochloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Bromoform	ND	0.0061	mg/Kg dry	1	L-04, V-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Bromomethane	ND	0.0061	mg/Kg dry	1	R-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
2-Butanone (MEK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Carbon Disulfide	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Chlorodibromomethane	ND	0.00061	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Chloroethane	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Chloroform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Chloromethane	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2-Dibromoethane (EDB)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Dibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0061	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,1-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,3-Dichloropropane	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
2,2-Dichloropropane	ND	0.0012	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
cis-1,3-Dichloropropene	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
trans-1,3-Dichloropropene	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Diethyl Ether	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Diisopropyl Ether (DIPE)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,4-Dioxane	ND	0.061	mg/Kg dry	1	V-16	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF

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

Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B4 19

Sampled: 1/20/2015 13:20

Sample ID: 15A0623-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Methylene Chloride	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Naphthalene	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1	V-05	SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Tetrahydrofuran	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
Vinyl Chloride	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
m+p Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/23/15	1/23/15 11:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.9	70-130	1/23/15 11:07
Toluene-d8	99.6	70-130	1/23/15 11:07
4-Bromofluorobenzene	89.8	70-130	1/23/15 11:07

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

Project Location: 102 Greenwood, ARP New Bedfo

Sample Description:

Work Order: 15A0623

Date Received: 1/21/2015

Field Sample #: VPEX\_B4 19

Sampled: 1/20/2015 13:20

Sample ID: 15A0623-03

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	89.5		% Wt	1		SM 2540G	1/26/15	1/28/15 10:01	MXG

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
15A0623-01 [VPEX_B3 11-12]	B114218	01/26/15
15A0623-02 [VPEX_B5 15]	B114218	01/26/15
15A0623-03 [VPEX_B4 19]	B114218	01/26/15

**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0623-01 [VPEX_B3 11-12]	B114098	9.56	10.0	01/23/15
15A0623-02 [VPEX_B5 15]	B114098	8.21	10.0	01/23/15
15A0623-03 [VPEX_B4 19]	B114098	9.16	10.0	01/23/15

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 B114098 - SW-846 5035

Blank (B114098-BLK1)

Prepared & Analyzed: 01/23/15

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.010	mg/Kg wet							L-04, V-05
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							V-05
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							V-05
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							V-05
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.010	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
<b>Batch B114098 - SW-846 5035</b>										
<b>Blank (B114098-BLK1)</b>										
Prepared & Analyzed: 01/23/15										
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							V-05
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0496		mg/Kg wet	0.0500		99.1	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0453		mg/Kg wet	0.0500		90.6	70-130			
<b>LCS (B114098-BS1)</b>										
Prepared & Analyzed: 01/23/15										
Acetone	0.227	0.10	mg/Kg wet	0.200		114	40-160			V-20 †
tert-Amyl Methyl Ether (TAME)	0.0165	0.0010	mg/Kg wet	0.0200		82.4	70-130			
Benzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
Bromochloromethane	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130			V-20
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
<b>Bromoform</b>	0.0129	0.010	mg/Kg wet	0.0200		<b>64.5</b> *	70-130			L-04, V-05
Bromomethane	0.0115	0.010	mg/Kg wet	0.0200		57.5	40-160			R-05 †
2-Butanone (MEK)	0.183	0.040	mg/Kg wet	0.200		91.6	40-160			†
n-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
sec-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0176	0.0010	mg/Kg wet	0.0200		88.2	70-130			
Carbon Disulfide	0.0217	0.0060	mg/Kg wet	0.0200		109	70-130			
<b>Carbon Tetrachloride</b>	0.0135	0.0020	mg/Kg wet	0.0200		<b>67.3</b> *	70-130			L-07, V-05
Chlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Chlorodibromomethane	0.0145	0.0010	mg/Kg wet	0.0200		72.7	70-130			V-05
Chloroethane	0.0251	0.010	mg/Kg wet	0.0200		126	70-130			
Chloroform	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Chloromethane	0.0170	0.010	mg/Kg wet	0.0200		85.2	40-160			†
2-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
<b>1,2-Dibromo-3-chloropropane (DBCP)</b>	0.0136	0.0020	mg/Kg wet	0.0200		<b>68.0</b> *	70-130			L-07, V-05
1,2-Dibromoethane (EDB)	0.0183	0.0010	mg/Kg wet	0.0200		91.5	70-130			
Dibromomethane	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,3-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	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
<b>Batch B114098 - SW-846 5035</b>										
<b>LCS (B114098-BS1)</b>										
Prepared & Analyzed: 01/23/15										
Dichlorodifluoromethane (Freon 12)	0.0186	0.010	mg/Kg wet	0.0200		93.2	40-160			V-05 †
1,1-Dichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
<b>1,1-Dichloroethylene</b>	0.0261	0.0040	mg/Kg wet	0.0200		<b>131</b>	<b>*</b> 70-130			L-02
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
trans-1,2-Dichloroethylene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,2-Dichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
1,3-Dichloropropane	0.0186	0.0010	mg/Kg wet	0.0200		92.8	70-130			
<b>2,2-Dichloropropane</b>	0.0135	0.0020	mg/Kg wet	0.0200		<b>67.3</b>	<b>*</b> 70-130			L-07, V-05
1,1-Dichloropropene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
cis-1,3-Dichloropropene	0.0155	0.0010	mg/Kg wet	0.0200		77.4	70-130			
trans-1,3-Dichloropropene	0.0152	0.0010	mg/Kg wet	0.0200		76.2	70-130			
Diethyl Ether	0.0236	0.010	mg/Kg wet	0.0200		118	70-130			V-20
Diisopropyl Ether (DIPE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
1,4-Dioxane	0.168	0.10	mg/Kg wet	0.200		84.0	40-160			V-16 †
Ethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Hexachlorobutadiene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.200		89.4	40-160			†
Isopropylbenzene (Cumene)	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
p-Isopropyltoluene (p-Cymene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0191	0.0040	mg/Kg wet	0.0200		95.4	70-130			
Methylene Chloride	0.0214	0.010	mg/Kg wet	0.0200		107	70-130			
4-Methyl-2-pentanone (MIBK)	0.187	0.020	mg/Kg wet	0.200		93.3	40-160			†
Naphthalene	0.0162	0.010	mg/Kg wet	0.0200		81.2	70-130			
n-Propylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Styrene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,1,1,2-Tetrachloroethane	0.0144	0.0020	mg/Kg wet	0.0200		72.2	70-130			V-05
1,1,2,2-Tetrachloroethane	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130			
Tetrachloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Tetrahydrofuran	0.0215	0.010	mg/Kg wet	0.0200		107	70-130			
Toluene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,2,3-Trichlorobenzene	0.0151	0.0040	mg/Kg wet	0.0200		75.7	70-130			
1,2,4-Trichlorobenzene	0.0153	0.0040	mg/Kg wet	0.0200		76.4	70-130			
1,1,1-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
1,1,2-Trichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
Trichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0260	0.010	mg/Kg wet	0.0200		130	70-130			
1,2,3-Trichloropropane	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130			
1,2,4-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3,5-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Vinyl Chloride	0.0217	0.010	mg/Kg wet	0.0200		108	70-130			
m+p Xylene	0.0402	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.5	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0472		mg/Kg wet	0.0500		94.4	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
<b>Batch B114098 - SW-846 5035</b>										
<b>LCS Dup (B114098-BSD1)</b>										
Prepared & Analyzed: 01/23/15										
Acetone	0.198	0.10	mg/Kg wet	0.200		99.0	40-160	13.7	20	V-20 †
tert-Amyl Methyl Ether (TAME)	0.0183	0.0010	mg/Kg wet	0.0200		91.3	70-130	10.2	20	
Benzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	6.27	20	
Bromobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	4.82	20	
<b>Bromochloromethane</b>	0.0264	0.0020	mg/Kg wet	0.0200		<b>132</b> *	70-130	9.78	20	L-07, V-20
Bromodichloromethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	11.8	20	
<b>Bromoform</b>	0.0138	0.010	mg/Kg wet	0.0200		<b>69.0</b> *	70-130	6.74	20	L-04, V-05
Bromomethane	0.0150	0.010	mg/Kg wet	0.0200		74.8	40-160	<b>26.2</b> *	20	L-14, R-05 †
2-Butanone (MEK)	0.187	0.040	mg/Kg wet	0.200		93.7	40-160	2.29	20	†
n-Butylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	4.32	20	
sec-Butylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	4.04	20	
tert-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	4.22	20	
tert-Butyl Ethyl Ether (TBEE)	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130	8.99	20	
Carbon Disulfide	0.0229	0.0060	mg/Kg wet	0.0200		114	70-130	5.11	20	
Carbon Tetrachloride	0.0145	0.0020	mg/Kg wet	0.0200		72.4	70-130	7.30	20	V-05
Chlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	4.49	20	
Chlorodibromomethane	0.0159	0.0010	mg/Kg wet	0.0200		79.5	70-130	8.94	20	V-05
Chloroethane	0.0256	0.010	mg/Kg wet	0.0200		128	70-130	1.81	20	
Chloroform	0.0217	0.0040	mg/Kg wet	0.0200		108	70-130	7.27	20	
Chloromethane	0.0179	0.010	mg/Kg wet	0.0200		89.7	40-160	5.15	20	†
2-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	6.66	20	
4-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	5.94	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0153	0.0020	mg/Kg wet	0.0200		76.3	70-130	11.5	20	V-05
1,2-Dibromoethane (EDB)	0.0195	0.0010	mg/Kg wet	0.0200		97.6	70-130	6.45	20	
Dibromomethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	10.1	20	
1,2-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.73	20	
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	4.69	20	
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	6.17	20	
Dichlorodifluoromethane (Freon 12)	0.0195	0.010	mg/Kg wet	0.0200		97.5	40-160	4.51	20	V-05 †
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	5.51	20	
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	2.82	20	
<b>1,1-Dichloroethylene</b>	0.0275	0.0040	mg/Kg wet	0.0200		<b>138</b> *	70-130	5.07	20	L-02
cis-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	6.08	20	
trans-1,2-Dichloroethylene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	6.07	20	
1,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	5.66	20	
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	8.36	20	
2,2-Dichloropropane	0.0143	0.0020	mg/Kg wet	0.0200		71.3	70-130	5.77	20	V-05
1,1-Dichloropropene	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130	7.37	20	
cis-1,3-Dichloropropene	0.0167	0.0010	mg/Kg wet	0.0200		83.7	70-130	7.82	20	
trans-1,3-Dichloropropene	0.0168	0.0010	mg/Kg wet	0.0200		84.2	70-130	9.98	20	
Diethyl Ether	0.0253	0.010	mg/Kg wet	0.0200		127	70-130	6.95	20	V-20
Diisopropyl Ether (DIPE)	0.0227	0.0010	mg/Kg wet	0.0200		114	70-130	8.53	20	
1,4-Dioxane	0.179	0.10	mg/Kg wet	0.200		89.7	40-160	6.59	20	V-16 †
Ethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	5.98	20	
Hexachlorobutadiene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	7.21	20	
2-Hexanone (MBK)	0.193	0.020	mg/Kg wet	0.200		96.4	40-160	7.48	20	†
Isopropylbenzene (Cumene)	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	7.04	20	
p-Isopropyltoluene (p-Cymene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	5.04	20	
Methyl tert-Butyl Ether (MTBE)	0.0210	0.0040	mg/Kg wet	0.0200		105	70-130	9.77	20	
Methylene Chloride	0.0231	0.010	mg/Kg wet	0.0200		115	70-130	7.37	20	
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.200		103	40-160	9.66	20	†
Naphthalene	0.0181	0.010	mg/Kg wet	0.0200		90.4	70-130	10.7	20	

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
<b>Batch B114098 - SW-846 5035</b>										
<b>LCS Dup (B114098-BSD1)</b>										
Prepared & Analyzed: 01/23/15										
n-Propylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	5.02	20	
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	6.17	20	
1,1,1,2-Tetrachloroethane	0.0156	0.0020	mg/Kg wet	0.0200		78.2	70-130	7.98	20	V-05
1,1,2,2-Tetrachloroethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130	7.98	20	
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	8.86	20	
Tetrahydrofuran	0.0240	0.010	mg/Kg wet	0.0200		120	70-130	11.2	20	
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	6.90	20	
1,2,3-Trichlorobenzene	0.0168	0.0040	mg/Kg wet	0.0200		83.8	70-130	10.2	20	
1,2,4-Trichlorobenzene	0.0167	0.0040	mg/Kg wet	0.0200		83.6	70-130	9.00	20	
1,1,1-Trichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130	7.35	20	
1,1,2-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	6.10	20	
Trichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	7.29	20	
<b>Trichlorofluoromethane (Freon 11)</b>	0.0271	0.010	mg/Kg wet	0.0200		<b>136</b> *	70-130	3.99	20	L-07
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	7.36	20	
1,2,4-Trimethylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	5.63	20	
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	5.45	20	
Vinyl Chloride	0.0226	0.010	mg/Kg wet	0.0200		113	70-130	4.42	20	
m+p Xylene	0.0422	0.0040	mg/Kg wet	0.0400		105	70-130	4.81	20	
o-Xylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	6.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0471		mg/Kg wet	0.0500		94.3	70-130			

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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B114218 - % Solids**

**Duplicate (B114218-DUP1)**

**Source: 15A0623-01**

Prepared: 01/26/15 Analyzed: 01/28/15

% Solids	94.0		% Wt		94.3			0.319	20	
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**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-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-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.
- R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
- 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 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,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	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,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	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	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	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,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
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME

**CERTIFICATIONS**

**Certified Analyses included in this Report**

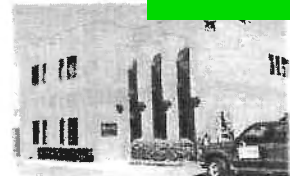
Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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: TRC RECEIVED BY: JDL DATE: 1/21/15

- 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		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber <u>clear jar</u>	3
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	9	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____	# Methanol <u>3</u>	Time and Date Frozen:
Doc# 277 # Bisulfate <u>6</u>	# 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?  
Log-In Technician Initials: JDLDate/Time:  
Date/Time: 1/21/15 1550

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 15A0623
Project Location: 102 Greenwood, ARP New Bedford, MA	RTN:

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

15A0623-01 thru 15A0623-03

Matrices: Soil

**CAM Protocol (check all that below)**

8260 VOC CAM II A (X)	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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

**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.**

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

<sup>1</sup>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: Tod Kopycinski Position: Laboratory Director  
 Printed Name: Tod E. Kopycinski Date: 01/28/15

January 29, 2015

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

Project Location: ARP New Bedford  
Client Job Number:  
Project Number: 115058  
Laboratory Work Order Number: 15A0689

Enclosed are results of analyses for samples received by the laboratory on January 22, 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 'M' and 'K'.

Meghan E. Kelley  
Project Manager

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

REPORT DATE: 1/29/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15A0689

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
VPEX_8 5	15A0689-03	Soil		SM 2540G 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.

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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:****Acetone**

B114214-BS1, B114214-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:****2-Butanone (MEK)**

B114214-BS1, B114214-BSD1

**2-Hexanone (MBK)**

B114214-BS1, B114214-BSD1

**Bromomethane**

B114214-BS1, B114214-BSD1

**Dichlorodifluoromethane (Freon 11)**

B114214-BS1, B114214-BSD1

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**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**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

**Methyl tert-Butyl Ether (MTBE)**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

**Naphthalene**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

**tert-Amyl Methyl Ether (TAME)**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

**tert-Butyl Ethyl Ether (TBEE)**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

**trans-1,3-Dichloropropene**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

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**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:****1,2-Dibromo-3-chloropropane (DB)**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

**1,4-Dioxane**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-BSD1

**Tetrahydrofuran**

15A0689-03[VPEX\_8 5], B114214-BLK1, B114214-BS1, B114214-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**

B114214-BS1, B114214-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 "Tod Kopyscinski". The signature is written in a cursive, somewhat stylized script.

Tod E. Kopyscinski  
Laboratory Director



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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0689

Date Received: 1/22/2015

Field Sample #: VPEX\_8\_5

Sampled: 1/21/2015 10:00

Sample ID: 15A0689-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00085	mg/Kg dry	1	V-05	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Bromomethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
sec-Butylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
tert-Butylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00085	mg/Kg dry	1	V-05	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Carbon Disulfide	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Chlorodibromomethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Chloroethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Chloromethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,3-Dichloropropane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
2,2-Dichloropropane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
cis-1,3-Dichloropropene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
trans-1,3-Dichloropropene	ND	0.0034	mg/Kg dry	1	V-05	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Diethyl Ether	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Diisopropyl Ether (DIPE)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,4-Dioxane	ND	0.085	mg/Kg dry	1	V-16	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF

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

Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0689

Date Received: 1/22/2015

Field Sample #: VPEx\_8\_5

Sampled: 1/21/2015 10:00

Sample ID: 15A0689-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1	V-05	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Methylene Chloride	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Naphthalene	ND	0.0085	mg/Kg dry	1	V-05	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
n-Propylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Tetrahydrofuran	ND	0.0085	mg/Kg dry	1	V-16	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2,3-Trichlorobenzene	ND	0.0034	mg/Kg dry	1	V-05	SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2,4-Trichlorobenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Trichloroethylene	0.039	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
Vinyl Chloride	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/26/15	1/26/15 15:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	1/26/15 15:39
Toluene-d8	98.5	70-130	1/26/15 15:39
4-Bromofluorobenzene	87.5	70-130	1/26/15 15:39

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Project Location: ARP New Bedford

Sample Description:

Work Order: 15A0689

Date Received: 1/22/2015

Field Sample #: VPEX\_8 5

Sampled: 1/21/2015 10:00

Sample ID: 15A0689-03

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	69.2		% Wt	1		SM 2540G	1/28/15	1/29/15 9:09	WAL

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### Sample Extraction Data

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
15A0689-03 [VPEX_8 5]	B114334	01/28/15

**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0689-03 [VPEX_8 5]	B114214	8.49	10.0	01/26/15

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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 B114214 - SW-846 5035

Blank (B114214-BLK1)

Prepared & Analyzed: 01/26/15

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							V-05
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0040	mg/Kg wet							
tert-Butylbenzene	ND	0.0040	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							V-05
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0040	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0040	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0040	mg/Kg wet							V-05
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							V-05
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.010	mg/Kg wet							V-05

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 B114214 - SW-846 5035

Blank (B114214-BLK1)

Prepared & Analyzed: 01/26/15

n-Propylbenzene	ND	0.0040	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0040	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.0040	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0547		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0487		mg/Kg wet	0.0500		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0473		mg/Kg wet	0.0500		94.6	70-130			

LCS (B114214-BS1)

Prepared & Analyzed: 01/26/15

Acetone	0.465	0.10	mg/Kg wet	0.200		232 *	40-160			L-02, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0158	0.0010	mg/Kg wet	0.0200		79.1	70-130			V-05
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
Bromobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromochloromethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromodichloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromoform	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromomethane	0.0109	0.010	mg/Kg wet	0.0200		54.5	40-160			L-14 †
2-Butanone (MEK)	0.308	0.040	mg/Kg wet	0.200		154	40-160			L-14 †
n-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
sec-Butylbenzene	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130			
tert-Butylbenzene	0.0209	0.0040	mg/Kg wet	0.0200		105	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0161	0.0010	mg/Kg wet	0.0200		80.6	70-130			V-05
Carbon Disulfide	0.0175	0.0060	mg/Kg wet	0.0200		87.6	70-130			
Carbon Tetrachloride	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorodibromomethane	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			
Chloroform	0.0218	0.0040	mg/Kg wet	0.0200		109	70-130			
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.6	40-160			†
2-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
4-Chlorotoluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			V-16
1,2-Dibromoethane (EDB)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichlorobenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,3-Dichlorobenzene	0.0240	0.0020	mg/Kg wet	0.0200		120	70-130			
1,4-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	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
<b>Batch B114214 - SW-846 5035</b>										
<b>LCS (B114214-BS1)</b>										
Prepared & Analyzed: 01/26/15										
Dichlorodifluoromethane (Freon 12)	0.0124	0.010	mg/Kg wet	0.0200		61.9	40-160			L-14 †
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
1,2-Dichloroethane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1-Dichloroethylene	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130			
cis-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
1,3-Dichloropropane	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
2,2-Dichloropropane	0.0164	0.0040	mg/Kg wet	0.0200		81.9	70-130			
1,1-Dichloropropene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
cis-1,3-Dichloropropene	0.0159	0.0040	mg/Kg wet	0.0200		79.4	70-130			
trans-1,3-Dichloropropene	0.0171	0.0040	mg/Kg wet	0.0200		85.5	70-130			V-05
Diethyl Ether	0.0206	0.010	mg/Kg wet	0.0200		103	70-130			
Diisopropyl Ether (DIPE)	0.0164	0.0010	mg/Kg wet	0.0200		82.1	70-130			
1,4-Dioxane	0.213	0.10	mg/Kg wet	0.200		106	40-160			V-16 †
Ethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Hexachlorobutadiene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
2-Hexanone (MBK)	0.295	0.020	mg/Kg wet	0.200		147	40-160			L-14 †
Isopropylbenzene (Cumene)	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
p-Isopropyltoluene (p-Cymene)	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0143	0.0040	mg/Kg wet	0.0200		71.4	70-130			V-05
Methylene Chloride	0.0205	0.010	mg/Kg wet	0.0200		103	70-130			
4-Methyl-2-pentanone (MIBK)	0.217	0.020	mg/Kg wet	0.200		109	40-160			†
Naphthalene	0.0153	0.010	mg/Kg wet	0.0200		76.7	70-130			V-05
n-Propylbenzene	0.0213	0.0040	mg/Kg wet	0.0200		107	70-130			
Styrene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
1,1,1,2-Tetrachloroethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Tetrahydrofuran	0.0192	0.010	mg/Kg wet	0.0200		95.8	70-130			V-16
Toluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,3-Trichlorobenzene	0.0182	0.0040	mg/Kg wet	0.0200		91.0	70-130			V-05
1,2,4-Trichlorobenzene	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130			
1,1,1-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,1,2-Trichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Trichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0223	0.010	mg/Kg wet	0.0200		112	70-130			
1,2,3-Trichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trimethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
1,3,5-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Vinyl Chloride	0.0141	0.010	mg/Kg wet	0.0200		70.7	70-130			
m+p Xylene	0.0419	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0535		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/Kg wet	0.0500		98.4	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
<b>Batch B114214 - SW-846 5035</b>										
<b>LCS Dup (B114214-BSD1)</b>										
Prepared & Analyzed: 01/26/15										
Acetone	0.412	0.10	mg/Kg wet	0.200		206 *	40-160	12.1	20	L-02, V-20 †
tert-Amyl Methyl Ether (TAME)	0.0156	0.0010	mg/Kg wet	0.0200		77.8	70-130	1.66	20	V-05
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	0.00	20	
Bromobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	0.813	20	
Bromochloromethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.380	20	
Bromodichloromethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	0.988	20	
Bromoform	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	1.80	20	
Bromomethane	0.0132	0.010	mg/Kg wet	0.0200		66.0	40-160	19.1	20	L-14 †
2-Butanone (MEK)	0.294	0.040	mg/Kg wet	0.200		147	40-160	4.63	20	L-14 †
n-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	0.660	20	
sec-Butylbenzene	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	2.38	20	
tert-Butylbenzene	0.0211	0.0040	mg/Kg wet	0.0200		105	70-130	0.667	20	
tert-Butyl Ethyl Ether (TBEE)	0.0157	0.0010	mg/Kg wet	0.0200		78.5	70-130	2.64	20	V-05
Carbon Disulfide	0.0176	0.0060	mg/Kg wet	0.0200		88.2	70-130	0.683	20	
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.60	20	
Chlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	4.00	20	
Chlorodibromomethane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	0.280	20	
Chloroethane	0.0198	0.010	mg/Kg wet	0.0200		98.8	70-130	2.30	20	
Chloroform	0.0215	0.0040	mg/Kg wet	0.0200		107	70-130	1.66	20	
Chloromethane	0.0145	0.010	mg/Kg wet	0.0200		72.3	40-160	3.13	20	†
2-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	1.27	20	
4-Chlorotoluene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	1.71	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.89	20	V-16
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	3.34	20	
Dibromomethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	0.776	20	
1,2-Dichlorobenzene	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	1.41	20	
1,3-Dichlorobenzene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	3.74	20	
1,4-Dichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.64	20	
Dichlorodifluoromethane (Freon 12)	0.0122	0.010	mg/Kg wet	0.0200		61.1	40-160	1.30	20	L-14 †
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	0.106	20	
1,2-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	1.16	20	
1,1-Dichloroethylene	0.0227	0.0040	mg/Kg wet	0.0200		114	70-130	0.707	20	
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	1.67	20	
trans-1,2-Dichloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	3.06	20	
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	1.72	20	
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	3.53	20	
2,2-Dichloropropane	0.0160	0.0040	mg/Kg wet	0.0200		79.8	70-130	2.60	20	
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.84	20	
cis-1,3-Dichloropropene	0.0156	0.0040	mg/Kg wet	0.0200		78.1	70-130	1.65	20	
trans-1,3-Dichloropropene	0.0171	0.0040	mg/Kg wet	0.0200		85.7	70-130	0.234	20	V-05
Diethyl Ether	0.0210	0.010	mg/Kg wet	0.0200		105	70-130	2.21	20	
Diisopropyl Ether (DIPE)	0.0165	0.0010	mg/Kg wet	0.0200		82.7	70-130	0.728	20	
1,4-Dioxane	0.221	0.10	mg/Kg wet	0.200		111	40-160	3.98	20	V-16 †
Ethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	2.27	20	
Hexachlorobutadiene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	0.264	20	
2-Hexanone (MBK)	0.276	0.020	mg/Kg wet	0.200		138	40-160	6.55	20	L-14 †
Isopropylbenzene (Cumene)	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.709	20	
p-Isopropyltoluene (p-Cymene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	1.97	20	
Methyl tert-Butyl Ether (MTBE)	0.0150	0.0040	mg/Kg wet	0.0200		74.8	70-130	4.65	20	V-05
Methylene Chloride	0.0203	0.010	mg/Kg wet	0.0200		101	70-130	1.28	20	
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		106	40-160	1.98	20	†
Naphthalene	0.0150	0.010	mg/Kg wet	0.0200		75.0	70-130	2.24	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
<b>Batch B114214 - SW-846 5035</b>										
<b>LCS Dup (B114214-BSD1)</b>										
Prepared & Analyzed: 01/26/15										
n-Propylbenzene	0.0211	0.0040	mg/Kg wet	0.0200		106	70-130	0.942	20	
Styrene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	0.305	20	
1,1,1,2-Tetrachloroethane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	1.92	20	
1,1,2,2-Tetrachloroethane	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130	1.82	20	
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	0.0934	20	
Tetrahydrofuran	0.0195	0.010	mg/Kg wet	0.0200		97.4	70-130	1.66	20	V-16
Toluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	0.584	20	
1,2,3-Trichlorobenzene	0.0185	0.0040	mg/Kg wet	0.0200		92.3	70-130	1.42	20	V-05
1,2,4-Trichlorobenzene	0.0174	0.0040	mg/Kg wet	0.0200		86.8	70-130	2.39	20	
1,1,1-Trichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	1.59	20	
1,1,2-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	3.61	20	
Trichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	0.410	20	
Trichlorofluoromethane (Freon 11)	0.0221	0.010	mg/Kg wet	0.0200		111	70-130	0.900	20	
1,2,3-Trichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.90	20	
1,2,4-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.66	20	
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	0.674	20	
Vinyl Chloride	0.0141	0.010	mg/Kg wet	0.0200		70.7	70-130	0.00	20	
m+p Xylene	0.0414	0.0040	mg/Kg wet	0.0400		104	70-130	1.10	20	
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.45	20	
Surrogate: 1,2-Dichloroethane-d4	0.0530		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.5	70-130			

**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.
  - 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 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,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	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,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	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	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	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,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
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
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
1,2,4-Trichlorobenzene	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	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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

# CHAIN OF CUSTODY RECORD

Phone: 413-525-2332  
Fax: 413-525-5405  
Email: info@contestlabs.com  
www.contestlabs.com



Rev 04/05/12

Telephone: 978-970-3600

Project # 115058

Company Name: TRC

Address: 650 SUFFOLK ST LOWELL MA

Attention: DAVID SULLIVAN

Project Location: ARP NEWBEDFORD

Sampled By: JASON FIELD

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

DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE

Format:  EXCEL  OGIS  OTHER

Collection:  "Enhanced Data Package"

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Crab	Matrix	Units
01	VPEX-6 5'	1/21/15	9:40	✓	✓	S	S
02	VPEX-7 7'	"	9:50	✓	✓	S	S
03	VPEX-8 5'	"	10:00	✓	✓	S	S
	ZPEX-2 5-7'	"	10:30	✓	✓	S	S
	ZPEX-3 5-7'	"	11:00	✓	✓	S	S
	ZPEX-4 5-7'	"	11:10	✓	✓	S	S
	ZPEX-5 5-7'	"	11:20	✓	✓	S	S

Comments: R = RUSH PCB SAMPLES 48 HR TAX  
NOTE ZPEX-2 5-7' MS/MSD  
DATA ANALYZE PER JASON FIELD 1/21/15

Relinquished by: (signature)  
Received by: (signature) 1/22/15 09:30  
Relinquished by: (signature) 1/22/15 16:30  
Received by: (signature) 3.5.1/22/15 16:30

Turnaround:  7-Day  10-Day  Other 5 Day RUSH  
 24-Hr  48-Hr  72-Hr  14-Day  
Require lab approval

Detection Limit Requirements: MCP  
Massachusetts: \_\_\_\_\_  
Connecticut: \_\_\_\_\_  
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

Lab #	Preservation	Container Code	# of Containers
1			
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ANALYSIS REQUESTED

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

\*\*\*Preservation  
I=Ice  
M=HCL  
N=Nitric Acid  
S=Sulfuric Acid  
B=50 dilum 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

VOCs 8260  
PCBs by SOXMBT

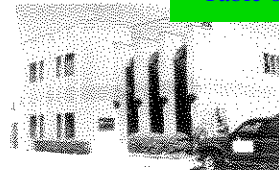
PLEASE USE THE FOLLOWING CODES TO LET CON-TEST KNOW IF A SPECIFIC SAMPLE MAY BE HIGH IN CONCENTRATION IN MATRIX/CONC. CODE BOX:  
H - High, M - Medium, L - Low, C - Clean, U - Unknown

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

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 INCOMPLETE, 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: TRC RECEIVED BY: KB DATE: 1/22/15

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: VPEX-7 has no vials while VPEX-6 has 6

3) Are all the samples in good condition?  Yes  No

If not, explain: Sampler likely mislabelled, kept vials in 26 for ID by PM

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 3.5°

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun \_\_\_\_\_

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		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>3</u>
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	<u>9</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments: VPEX-6 has 6 vials  
VPEX-7 has no vials  
VPEX-8 has 3 vials

40 mL vials: # HCl \_\_\_\_\_ # Methanol 3  
 # Bisulfate 6 # 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.	F		
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.	F		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials:

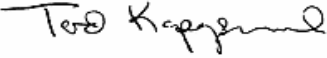
KB

Date/Time:

Date/Time:

V22/15  
16:30

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory		Project #: 15A0689	
Project Location: ARP New Bedford		RTN:	
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 15A0689-03			
Matrices: Soil			
<b>CAM Protocol (check all that below)</b>			
8260 VOC CAM II A (X)	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 ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )
			6860 Perchlorate CAM VIII B ( )
<b>Affirmative response to Questions A through F is required for "Presumptive Certainty" status</b>			
<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?		<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>
<b>A response to questions G, H and I below is required for "Presumptive Certainty" status</b>			
<b>G</b>	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 <sup>1</sup>
<b>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.</b>			
<b>H</b>	Were all QC performance standards specified in the CAM protocol(s) achieved?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
<b>I</b>	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<sup>1</sup> All Negative responses must be addressed in an attached Environmental Laboratory case narrative.			
<b>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.</b>			
Signature: _____ 		Position: Laboratory Director	
Printed Name: Tod E. Kopycinski		Date: 01/29/15	



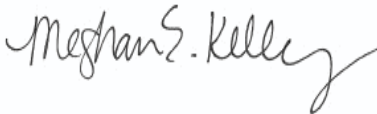
February 3, 2015

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: 15A0854

Enclosed are results of analyses for samples received by the laboratory on January 26, 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: 2/3/2015

PURCHASE ORDER NUMBER: 62443

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15A0854

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
WDP	15A0854-01	Soil		SM 2540G SW-846 6010C SW-846 7471B 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.

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

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

SW-846 8082A

**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:****Aroclor-1016**

B114338-BS1, B114338-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:****Aroclor-1260**

B114338-BSD1

**V-06**

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

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

B114338-BS1, B114338-BSD1

**Aroclor-1260**

B114338-BS1, B114338-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:****Aroclor-1016**

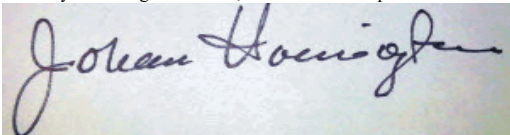
B114338-BLK1

**Aroclor-1260**

B114338-BLK1

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: 15A0854

Date Received: 1/26/2015

Field Sample #: WDP

Sampled: 1/26/2015 10:30

Sample ID: 15A0854-01

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	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1254 [2]	0.19	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1260 [2]	0.30	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/15	1/31/15 2:16	MJC
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.4	30-150					1/31/15 2:16	
Decachlorobiphenyl [2]		92.2	30-150					1/31/15 2:16	
Tetrachloro-m-xylene [1]		92.3	30-150					1/31/15 2:16	
Tetrachloro-m-xylene [2]		100	30-150					1/31/15 2:16	

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15A0854

Date Received: 1/26/2015

Sampled: 1/26/2015 10:30

Field Sample #: WDP

Sample ID: 15A0854-01

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.6	mg/Kg dry	1		SW-846 6010C	1/29/15	2/3/15 12:05	OP
Barium	63	3.6	mg/Kg dry	1		SW-846 6010C	1/29/15	2/3/15 12:05	OP
Cadmium	0.48	0.36	mg/Kg dry	1		SW-846 6010C	1/29/15	2/3/15 12:05	OP
Chromium	7.7	0.72	mg/Kg dry	1		SW-846 6010C	1/29/15	2/3/15 12:05	OP
Lead	130	1.1	mg/Kg dry	1		SW-846 6010C	1/29/15	2/3/15 12:05	OP
Mercury	0.19	0.035	mg/Kg dry	1		SW-846 7471B	1/28/15	1/29/15 9:50	SCB
Selenium	ND	7.2	mg/Kg dry	1		SW-846 6010C	1/29/15	2/3/15 12:05	OP
Silver	ND	0.72	mg/Kg dry	1		SW-846 6010C	1/29/15	2/3/15 12:05	OP

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Project Location: New Bedford, MA

Sample Description:

Work Order: 15A0854

Date Received: 1/26/2015

Sampled: 1/26/2015 10:30

Field Sample #: WDP

Sample ID: 15A0854-01

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	69.3		% Wt	1		SM 2540G	1/30/15	1/31/15 14:42	MXG

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

Lab Number [Field ID]	Batch	Date
15A0854-01 [WDP]	B114475	01/30/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0854-01 [WDP]	B114411	1.00	50.0	01/29/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0854-01 [WDP]	B114280	0.612	50.0	01/28/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15A0854-01 [WDP]	B114338	10.1	10.0	01/28/15



**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
<b>Batch B114338 - SW-846 3540C</b>										
<b>Blank (B114338-BLK1)</b>										
Prepared: 01/28/15 Analyzed: 01/29/15										
Aroclor-1016	ND	0.020	mg/Kg wet							V-20
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							V-20
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	0.184		mg/Kg wet	0.200		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.200		81.5	30-150			
<b>LCS (B114338-BS1)</b>										
Prepared: 01/28/15 Analyzed: 01/29/15										
<b>Aroclor-1016</b>	0.29	0.10	mg/Kg wet	0.200		<b>143</b> *	40-140			L-02, V-06
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		113	40-140			
Aroclor-1260	0.28	0.10	mg/Kg wet	0.200		138	40-140			V-06
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Surrogate: Decachlorobiphenyl	0.213		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.213		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		78.0	30-150			
<b>LCS Dup (B114338-BSD1)</b>										
Prepared: 01/28/15 Analyzed: 01/29/15										
<b>Aroclor-1016</b>	0.30	0.10	mg/Kg wet	0.200		<b>148</b> *	40-140	3.46	30	L-02, V-06
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		118	40-140	4.63	30	
<b>Aroclor-1260</b>	0.29	0.10	mg/Kg wet	0.200		<b>144</b> *	40-140	4.42	30	L-07, V-06
Aroclor-1260 [2C]	0.23	0.10	mg/Kg wet	0.200		116	40-140	6.09	30	
Surrogate: Decachlorobiphenyl	0.215		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.8	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
<b>Batch B114280 - SW-846 7471</b>										
<b>Blank (B114280-BLK1)</b> Prepared: 01/28/15 Analyzed: 01/29/15										
Mercury	ND	0.025	mg/Kg wet							
<b>LCS (B114280-BS1)</b> Prepared: 01/28/15 Analyzed: 01/29/15										
Mercury	5.09	0.38	mg/Kg wet	5.76		88.4	71.2-128.6			
<b>LCS Dup (B114280-BSD1)</b> Prepared: 01/28/15 Analyzed: 01/29/15										
Mercury	5.12	0.38	mg/Kg wet	5.76		88.8	71.2-128.6	0.499	30	
<b>Batch B114411 - SW-846 3050B</b>										
<b>Blank (B114411-BLK1)</b> Prepared: 01/29/15 Analyzed: 02/03/15										
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							
<b>LCS (B114411-BS1)</b> Prepared: 01/29/15 Analyzed: 02/03/15										
Arsenic	121	5.0	mg/Kg wet	122		99.3	77.8-122.1			
Barium	168	5.0	mg/Kg wet	167		100	82-117.4			
Cadmium	87.7	0.50	mg/Kg wet	88.0		99.7	81.9-118.2			
Chromium	106	1.0	mg/Kg wet	102		104	78.7-120.6			
Lead	91.9	1.5	mg/Kg wet	94.5		97.3	82.4-117.8			
Selenium	147	10	mg/Kg wet	157		93.6	77.1-122.3			
Silver	32.6	1.0	mg/Kg wet	34.2		95.3	74.3-125.4			
<b>LCS Dup (B114411-BSD1)</b> Prepared: 01/29/15 Analyzed: 02/03/15										
Arsenic	119	5.0	mg/Kg wet	122		97.6	77.8-122.1	1.67	30	
Barium	168	5.0	mg/Kg wet	167		101	82-117.4	0.118	30	
Cadmium	88.6	0.50	mg/Kg wet	88.0		101	81.9-118.2	1.06	30	
Chromium	104	0.99	mg/Kg wet	102		102	78.7-120.6	1.43	30	
Lead	88.9	1.5	mg/Kg wet	94.5		94.1	82.4-117.8	3.36	30	
Selenium	143	9.9	mg/Kg wet	157		91.1	77.1-122.3	2.76	30	
Silver	31.9	0.99	mg/Kg wet	34.2		93.4	74.3-125.4	2.04	30	
<b>MRL Check (B114411-MRL1)</b> Prepared: 01/29/15 Analyzed: 02/03/15										
Lead	0.689	0.71	mg/Kg wet	0.707		97.4	80-120			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

WDP

*SW-846 8082A*

Lab Sample ID: 15A0854-01 Date(s) Analyzed: 01/31/2015 01/31/2015

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	0.18	
	2	0.00	-0.03	0.03	0.19	6.0
Aroclor-1260	1	0.00	-0.03	0.03	0.26	
	2	0.00	-0.03	0.03	0.30	12.8

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

LCS
-----

Lab Sample ID:                     B114338-BS1                                          Date(s) Analyzed:           01/29/2015                     01/29/2015          

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	-0.03	0.03	0.29	
	2	0.00	-0.03	0.03	0.23	22
Aroclor-1260	1	0.00	-0.03	0.03	0.28	
	2	0.00	-0.03	0.03	0.22	23



**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-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.
  - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
  - 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 Soil</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,AIHA,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 Soil</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

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	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
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	02/23/2015
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

Page 16 of 19

Rev 04.05.11

Company Name: TRC  
 Telephone: 978 970 5600

Address: 650 SUFFOLK ST  
 Project # 115052

Attention: DAVID SULLIVAN  
 Client PO#

Project Location: NEW BEDFORD MA

Sampled By: JASON FIERO

Project Proposal Provided? (for billing purposes)  
 yes  proposal date

DATA DELIVERY (check all that apply)  
 FAX  EMAIL  WEBSITE  
 Fax #  
 Email:  
 Format:  PDF  EXCEL  QGIS  OTHER

Con-Test Lab ID	Client Sample ID / Description	Prep/Anly	Grab	Analysis Requested
WD	11/20/15 10:30	✓	50	PCB's & METALS

Comments: PRIORITY PCB's x Pb

Requested by: David Sullivan  
 Date/TIME: 11/20/15 10:30  
 Turnaround:  7-Day  10-Day  Other ASAP  
 Signature Lab approval: [Signature]  
 Date/TIME: 11/20/15 10:30

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

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

IT IS 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: TRC RECEIVED BY: JDL DATE: 1/26/15

- 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 4.2

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

Doc #277 Rev. 4 August 2013

Who notified of False statements?  
 Log-In Technician Initials: JDL

Date/Time: 1/26/15 1445

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15A0854

Project Location: New Bedford, MA

RTN:

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

15A0854-01

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
----------	---	--

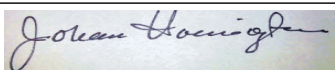
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 02/03/15

March 25, 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: 15C0857

Enclosed are results of analyses for samples received by the laboratory on March 23, 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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TRC Environmental Corporation - Lowell  
 650 Suffolk Street  
 Lowell, MA 01852  
 ATTN: David Sullivan

REPORT DATE: 3/25/2015

PURCHASE ORDER NUMBER: 76363

PROJECT NUMBER: 115058

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 15C0857

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
2PEX_3-S 5-7'	15C0857-01	Soil		SM 2540G SW-846 8082A	
2PEX_3-S 8-10'	15C0857-02	Soil		SM 2540G SW-846 8082A	
2PEX_3-W 5-7'	15C0857-03	Soil		SM 2540G SW-846 8082A	
DUP-1	15C0857-04	Soil		SM 2540G SW-846 8082A	
2PEX_3-W 8-10'	15C0857-05	Soil		SM 2540G 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.

SW-846 8082A

**Qualifications:****MS-21**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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

B117607-MSD1

**Aroclor-1016 [2C]**

B117607-MS1, B117607-MSD1

**Aroclor-1260**

B117607-MS1, B117607-MSD1

**Aroclor-1260 [2C]**

B117607-MS1, B117607-MSD1

**O-32**

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

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

15C0857-02[2PEX\_3-S 8-10'], 15C0857-05[2PEX\_3-W 8-10']

**R-06**

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

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

15C0857-01[2PEX\_3-S 5-7'], B117607-MS1, B117607-MSD1

**Aroclor-1016 [2C]**

15C0857-01[2PEX\_3-S 5-7'], B117607-MS1, B117607-MSD1

**Z-01**

Surrogate recovery is biased high due to the presence of Aroclor 1268 in the sample at a level below the reporting limit. Aroclor 1268 contains decachlorobiphenyl.

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

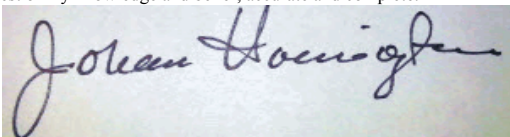
15C0857-03[2PEX\_3-W 5-7']

**Decachlorobiphenyl [2C]**

15C0857-03[2PEX\_3-W 5-7']

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: ARP New Bedford, MA

Sample Description:

Work Order: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-S 5-7'

Sampled: 3/20/2015 12:00

Sample ID: 15C0857-01

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	0.71	mg/Kg dry	25	R-06	SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1221 [1]	ND	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1232 [1]	ND	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1242 [1]	ND	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1248 [1]	ND	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1254 [1]	2.8	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1260 [1]	ND	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1262 [1]	ND	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Aroclor-1268 [1]	ND	0.71	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		113	30-150					3/25/15 6:09	
Decachlorobiphenyl [2]		118	30-150					3/25/15 6:09	
Tetrachloro-m-xylene [1]		106	30-150					3/25/15 6:09	
Tetrachloro-m-xylene [2]		107	30-150					3/25/15 6:09	

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: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-S 5-7'

Sampled: 3/20/2015 12:00

Sample ID: 15C0857-01

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	69.9		% Wt	1		SM 2540G	3/24/15	3/24/15 23:06	JLL

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-S 8-10'

Sampled: 3/20/2015 12:20

Sample ID: 15C0857-02

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	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 0:33	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		112	30-150					3/25/15 0:33	
Decachlorobiphenyl [2]		112	30-150					3/25/15 0:33	
Tetrachloro-m-xylene [1]		110	30-150					3/25/15 0:33	
Tetrachloro-m-xylene [2]		109	30-150					3/25/15 0:33	

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-S 8-10'

Sampled: 3/20/2015 12:20

Sample ID: 15C0857-02

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	89.0		% Wt	1		SM 2540G	3/24/15	3/24/15 23:06	JLL

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-W 5-7'

Sampled: 3/20/2015 12:30

Sample ID: 15C0857-03

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	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1221 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1232 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1242 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1248 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1254 [1]	2.6	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1260 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1262 [1]	ND	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Aroclor-1268 [2]	ND	0.60	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:22	JMB
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
Decachlorobiphenyl [1]	159	*	30-150	Z-01		3/25/15 6:22			
Decachlorobiphenyl [2]	157	*	30-150	Z-01		3/25/15 6:22			
Tetrachloro-m-xylene [1]	104		30-150			3/25/15 6:22			
Tetrachloro-m-xylene [2]	105		30-150			3/25/15 6:22			

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Project Location: ARP New Bedford, MA

Sample Description:

Work Order: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-W 5-7'

Sampled: 3/20/2015 12:30

Sample ID: 15C0857-03

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	82.9		% Wt	1		SM 2540G	3/24/15	3/24/15 23:06	JLL

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: 15C0857

Date Received: 3/23/2015

Field Sample #: DUP-1

Sampled: 3/20/2015 13:00

Sample ID: 15C0857-04

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	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1221 [1]	ND	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1232 [1]	ND	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1242 [1]	ND	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1248 [1]	ND	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1254 [1]	2.7	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1260 [1]	ND	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1262 [1]	ND	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Aroclor-1268 [1]	ND	0.69	mg/Kg dry	25		SW-846 8082A	3/23/15	3/25/15 6:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					3/25/15 6:34	
Decachlorobiphenyl [2]		109	30-150					3/25/15 6:34	
Tetrachloro-m-xylene [1]		101	30-150					3/25/15 6:34	
Tetrachloro-m-xylene [2]		102	30-150					3/25/15 6:34	

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: 15C0857

Date Received: 3/23/2015

Sampled: 3/20/2015 13:00

Field Sample #: DUP-1

Sample ID: 15C0857-04

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	69.7		% Wt	1		SM 2540G	3/24/15	3/24/15 23:06	JJL



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: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-W 8-10'

Sampled: 3/20/2015 13:10

Sample ID: 15C0857-05

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	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	3/23/15	3/25/15 1:25	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					3/25/15 1:25	
Decachlorobiphenyl [2]		102	30-150					3/25/15 1:25	
Tetrachloro-m-xylene [1]		103	30-150					3/25/15 1:25	
Tetrachloro-m-xylene [2]		101	30-150					3/25/15 1:25	

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: 15C0857

Date Received: 3/23/2015

Field Sample #: 2PEX\_3-W 8-10'

Sampled: 3/20/2015 13:10

Sample ID: 15C0857-05

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	84.9		% Wt	1		SM 2540G	3/24/15	3/24/15 23:06	JJL

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
15C0857-01 [2PEX_3-S 5-7']	B117686	03/24/15
15C0857-02 [2PEX_3-S 8-10']	B117686	03/24/15
15C0857-03 [2PEX_3-W 5-7']	B117686	03/24/15
15C0857-04 [DUP-1]	B117686	03/24/15
15C0857-05 [2PEX_3-W 8-10']	B117686	03/24/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15C0857-01 [2PEX_3-S 5-7']	B117607	10.1	10.0	03/23/15
15C0857-02 [2PEX_3-S 8-10']	B117607	10.4	10.0	03/23/15
15C0857-03 [2PEX_3-W 5-7']	B117607	10.1	10.0	03/23/15
15C0857-04 [DUP-1]	B117607	10.4	10.0	03/23/15
15C0857-05 [2PEX_3-W 8-10']	B117607	10.2	10.0	03/23/15

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
<b>Batch B117607 - SW-846 3540C</b>										
<b>Blank (B117607-BLK1)</b>										
Prepared: 03/23/15 Analyzed: 03/24/15										
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	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.211		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg wet	0.200		96.8	30-150			
<b>LCS (B117607-BS1)</b>										
Prepared: 03/23/15 Analyzed: 03/24/15										
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		111	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.202		mg/Kg wet	0.200		101	30-150			
<b>LCS Dup (B117607-BSD1)</b>										
Prepared: 03/23/15 Analyzed: 03/25/15										
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		103	40-140	7.36	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140	5.88	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		106	40-140	3.95	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140	4.34	30	
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.188		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		92.8	30-150			

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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
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Batch B117607 - SW-846 3540C

Matrix Spike (B117607-MS1)

Source: 15C0857-01

Prepared: 03/23/15 Analyzed: 03/25/15

Aroclor-1016	0.38	0.14	mg/Kg dry	0.281	ND	137	40-140			R-06
Aroclor-1016 [2C]	0.59	0.14	mg/Kg dry	0.281	ND	209 *	40-140			MS-21, R-06
Aroclor-1260	0.79	0.14	mg/Kg dry	0.281	ND	281 *	40-140			MS-21
Aroclor-1260 [2C]	0.89	0.14	mg/Kg dry	0.281	ND	319 *	40-140			MS-21
Surrogate: Decachlorobiphenyl	0.278		mg/Kg dry	0.281		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.315		mg/Kg dry	0.281		112	30-150			
Surrogate: Tetrachloro-m-xylene	0.290		mg/Kg dry	0.281		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.279		mg/Kg dry	0.281		99.3	30-150			

Matrix Spike Dup (B117607-MSD1)

Source: 15C0857-01

Prepared: 03/23/15 Analyzed: 03/25/15

Aroclor-1016	0.70	0.14	mg/Kg dry	0.283	ND	246 *	40-140	57.5 *	50	MS-21, R-06
Aroclor-1016 [2C]	1.0	0.14	mg/Kg dry	0.283	ND	353 *	40-140	52.4 *	50	MS-21, R-06
Aroclor-1260	0.97	0.14	mg/Kg dry	0.283	ND	341 *	40-140	20.3	50	MS-21
Aroclor-1260 [2C]	1.1	0.14	mg/Kg dry	0.283	ND	405 *	40-140	24.7	50	MS-21
Surrogate: Decachlorobiphenyl	0.292		mg/Kg dry	0.283		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.332		mg/Kg dry	0.283		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.308		mg/Kg dry	0.283		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.300		mg/Kg dry	0.283		106	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

2PEX\_3-S 5-7'

*SW-846 8082A*

Lab Sample ID: 15C0857-01 Date(s) Analyzed: 03/25/2015 03/25/2015

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	2.8	
	2	0.00	-0.03	0.03	2.7	2.6

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

**2PEX\_3-W 5-7'**

Lab Sample ID: 15C0857-03 Date(s) Analyzed: 03/25/2015 03/25/2015

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	2.6	
	2	0.00	-0.03	0.03	2.5	3.9

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

DUP-1

Lab Sample ID: 15C0857-04 Date(s) Analyzed: 03/25/2015 03/25/2015

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	2.7	
	2	0.00	-0.03	0.03	2.6	1.9











**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.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
O-32	A dilution was performed as part of the standard analytical procedure.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
Z-01	Surrogate recovery is biased high due to the presence of Aroclor 1268 in the sample at a level below the reporting limit. Aroclor 1268 contains decachlorobiphenyl.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</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

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	04/1/2015
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

# CHAIN OF CUSTODY RECORD

15C0857  
Rev 04.05.12


**con-test**  
ANALYTICAL LABORATORY  
Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

Company Name: TRC SOLUTIONS Telephone: 978-970-5600  
Address: 650 SUFFOLK ST Project # 115058  
LOWELL MA Client PO# 76363  
Attention: DAVID SULLIVAN DATA DELIVERY (check all that apply)  
Project Location: ARP NEW BEDFORD MA FAX EMAIL WEBSITE  
Sampled By: JASON FIERO Format:  PDF  EXCEL  OGIS  
Project Proposal Provided? (for billing purposes)  YES  NO proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code
		Beginning Date/Time	Ending Date/Time			
01	ZPEX-3-S 5-7'	3/20/15	12:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S
02	ZPEX-3-S 8-10'	"	12:20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
03	ZPEX-3-W 5-7'	"	12:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
04	DUPLICATE	"	13:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
05	ZPEX-3-W 8-10'	"	13:10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
06	ZPEX-3-W-S 5-7'	"	13:50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
07	ZPEX-3-W-S 8-10'	"	14:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
08	ZPEX-3-W-1 5-7'	"	14:10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
09	ZPEX-3-W-1 8-10'	"	14:20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"
10	ZPEX-3-W-N 5-7'	"	14:40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	"

Comments: H = HOLD

Signature	Date/Time	Turnaround
<i>Jason Fiero</i>	3/23/15	<input type="checkbox"/> 7-Day
<i>David Sullivan</i>	3/23/15 9:40	<input type="checkbox"/> 10-Day
<i>Jason Fiero</i>	3/23/15	<input type="checkbox"/> Other
<i>David Sullivan</i>	3/23/15	<input checked="" type="checkbox"/> RUSH
<i>Jason Fiero</i>	3/23/15	<input type="checkbox"/> 24-Hr
<i>David Sullivan</i>	3/23/15	<input type="checkbox"/> 48-Hr
<i>Jason Fiero</i>	3/23/15	<input type="checkbox"/> 72-Hr
<i>David Sullivan</i>	3/23/15	<input type="checkbox"/> 14-Day
<i>Jason Fiero</i>	3/23/15	<input type="checkbox"/> Require lab approval

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

ANALYSIS REQUESTED

Matrix Code	Analysis Requested
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

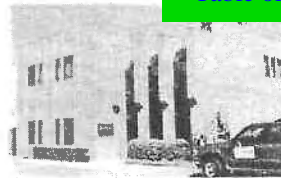
TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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: TRC Solutions RECEIVED BY: MT DATE: 3/23/15

- 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 2.4°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: 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		8 oz <u>amber</u> clear jar	13
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:
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**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.	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 3/23/15 13:30

## MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15C0857

Project Location: ARP New Bedford, MA

RTN:

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

15C0857-01 thru 15C0857-05

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 ( )	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**

<b>A</b>	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 <sup>1</sup>
<b>B</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 <sup>1</sup>
<b>C</b>	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 <sup>1</sup>
<b>D</b>	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 <sup>1</sup>
<b>E a</b>	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 <sup>1</sup>
<b>E b</b>	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>F</b>	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 <sup>1</sup>

**A response to questions G, H and I below is required for "Presumptive Certainty" status**

<b>G</b>	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 <sup>1</sup>
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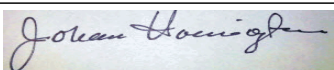
**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

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

<sup>1</sup> 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: 03/25/15