

RELEASE ABATEMENT MEASURE COMPLETION REPORT

SOIL REMOVAL AT SAMPLE LOCATION HF-31 NEW BEDFORD HIGH SCHOOL

NEW BEDFORD, MASSACHUSETTS

Release Tracking Number 4-15685

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Release Abatement Measure Completion Report

Soil Removal at Sample Location HF-31

New Bedford High School
New Bedford, Massachusetts

Release Tracking Number (RTN) 4-15685

TRC Project Number: 115058

TRC Environmental Corporation (TRC) is submitting this Release Abatement Measure Completion Report (RAM Completion Report) to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City) per 310 CMR 40.0446 of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). This RAM Completion Report describes impacted soil removal and site restoration activities conducted at sample location HF-31 (the Site), located on the west side of the New Bedford High School (NBHS) Campus, under a RAM Plan submitted to MassDEP on November 24, 2010 (TRC, 2010). The Site is being managed under MassDEP Release Tracking Number (RTN) 4-15685. MCP Special Project status (310 CMR 40.0060) has been established for RTN 4-15685 and other related RTNs. A Site location map is provided as Figure 1.

A portion of the soil volume targeted for removal under the RAM was regulated by the United States Environmental Protection Agency (EPA) under the regulations of the Toxic Substances Control Act (TSCA), specifically applicable sections of 40 CFR Part 761. With support from TRC, the City clarified EPA's requirements in advance of the preparation of the RAM Plan and the EPA issued a TSCA applicability letter to the City on December 2, 2010. Following a 20-day public comment period, the MassDEP issued conditional approval to conduct the RAM Plan activities on February 4, 2011.

The RAM Plan activities included the following:

- Pre-excavation PCB remediation confirmatory sampling to establish pre-defined excavation boundaries;
- Excavation of soil regulated as polychlorinated biphenyl (PCB) Remediation Waste and direct loading into lined cubic yard boxes;
- Excavation of remaining non-PCB Remediation Waste (also using pre-defined excavation boundaries);
- Off-Site disposal of all excavated soils;
- Off-Site disposal of remediation-derived wastes (e.g., decontamination solvents, rags, etc.); and
- Backfilling the excavated soil with documented contaminant-free fill material screened in advance for the presence of regulated contaminants.

This RAM Completion Report is organized as follows: Section I (Background) briefly summarizes information on TRC's involvement with the Site, the circumstances of the Site impacts and the objectives of this RAM Completion Report. Section II (RAM Completion Report) provides the information content for a RAM Completion Report per the MCP, as set forth in 310 CMR 40.0446. Section III (References) lists information sources relied upon in the preparation of this RAM Completion Report.

Appendices are provided for supporting information including a copy of the City's PCB Notification Letter (Appendix A), a copy of the Amendment to the PCB Notification Letter (Appendix B), a copy of the TSCA Applicability Letter (Appendix C), a copy of the MassDEP Conditional Approval letter (Appendix D), laboratory data packages associated with confirmatory sampling (Appendix E), laboratory data packages associated with soil disposal characterization (Appendix F), a photograph log of RAM related activities (Appendix G), laboratory data packages associated with imported backfill and loam materials (Appendix H), dust monitoring data and field forms (Appendix I), copies of the Uniform Hazardous Waste Manifests and Certificates of Disposal (Appendix J) and a copy of the Bill of Lading (BOL) shipping documents (Appendix K).

I. BACKGROUND

Site Description

The subject of this RAM Plan occupies approximately 0.02 acres (850 square feet) and is located on the west side of the NBHS Campus in the vicinity of historical sample location HF-31 (south of the flag pole traffic island). A Site location map is provided as Figure 1.

Investigation History

In July 2001, Vanasse Hangen Brustlin, Incorporated (VHB) collected 22 soil samples from 15 sampling locations at the NBHS Campus (VHB, 2001). The samples were analyzed for PCBs, semi-volatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) eight metals, and extractable petroleum hydrocarbons (EPH). The samples were identified as SS-1 to SS-15 by VHB. Due to TRC having utilized the same identification designations prior to knowledge of the samples, a "V" has been added to the sample identifications (SS-1 became VSS-1) to avoid confusion going forward.

Other prior subsurface environmental investigations were conducted by BETA Group, Incorporated (BETA) between September 2004 and February 2006. During that time, BETA advanced 343 soil borings plus an additional 12 surface soil samples (0-6 inches) at the NBHS Campus (BETA, 2006).

The results of laboratory analyses relative to MCP regulatory standards are discussed in Section 4.0 of the RAM Plan submitted to MassDEP on November 24, 2010 (TRC, 2010). BETA identified the following soil impacts (BETA, 2006):

- PCBs
- arsenic
- barium
- cadmium
- chromium
- lead
- mercury
- PAHs (specifically: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd) pyrene, phenanthrene, and pyrene).

TRC's environmental investigations consisted of direct push soil borings using track-, truck-, or dolly-mounted drill rigs to sample soil, observe subsurface soil conditions and install groundwater monitoring wells. Surface soil samples were collected using hand tools. The investigative approach was intended to evaluate the presence or absence of fill, the horizontal and vertical extent of potential impacts, and the potential presence of impacts in soil and fill material based on documentation available to TRC and past sampling in the area.

Additional environmental sampling was conducted by TRC from July 2008 through August 2009 to supplement previous work at the NBHS Campus by others, to refine the delineation of

impacted areas, and support remedial planning. The delineation sampling investigations were performed to determine pre-defined excavation boundaries for the lateral and vertical extent necessary to achieve the remedial goal (i.e., EPCs less than or equal to Method 1/Method 2 S-1 soil cleanup standards, later verified via a Method 3 risk characterization). Based on the risk characterization results, the supplemental sampling investigations were focused on a vertical depth of up to three feet below ground surface, targeting currently accessible soils. For the areas targeted as being considered for excavation, the excavation limits were determined by recalculating the exposure point concentrations for each targeted area after the samples within the excavation boundaries were eliminated from the data set, confirming that a condition of No Significant Risk would be achieved for the targeted areas following excavation. Please refer to the following documents for detailed discussions of TRC's prior soil investigation activities at the Site:

- *Data Summary Report, New Bedford High School, New Bedford, Massachusetts.* December 2008.
- *Interim Phase II Comprehensive Site Assessment, New Bedford High School and Dr. Paul F. Walsh Memorial Field, New Bedford, Massachusetts.* July 2009.
- *Immediate Response Action Completion Report and Imminent Hazard Evaluation, HB-23 Area Impacted Soil Removal, New Bedford High School, New Bedford, Massachusetts.* July 2009.
- *Immediate Response Action Completion Report and Imminent Hazard Evaluation, HH-13 Area Arsenic and Chromium Impacted Surface Soil, New Bedford High School, New Bedford, Massachusetts.* May 2009.
- *Data Summary Report, New Bedford High School, New Bedford, Massachusetts.* March 2010.
- *Final Phase II Comprehensive Site Assessment, New Bedford High School, New Bedford, Massachusetts.* January 2011.

Figure 2 of the RAM Plan, which was submitted to MassDEP on November 24, 2010, illustrates the locations investigated by TRC at the NBHS Campus (TRC, 2010). The sampling locations were surveyed by Land Planning, Incorporated (Land Planning) of Hanson, Massachusetts following TRC's sampling activities.

TRC conducted field screening of soil samples consisting of visual and olfactory observations, jar headspace readings using a calibrated photoionization detector (PID), and professional judgment, consistent with TRC Standard Operating Procedures (SOPs) and general industry practice. TRC employed the MassDEP jar headspace technique (MassDEP, 1996) to screen for the presence of volatile organic compounds (VOCs) in soil. TRC also evaluated and logged the geologic character of the soil samples consistent with the Burmeister (1958) method.

Soil samples for PCB Aroclor and homolog analyses were submitted to Northeast Analytical Laboratories (NEA) of Schenectady, New York. Soil samples for MCP metals and mercury, PAHs, and Toxicity Characteristic Leaching Procedure (TCLP) metals analyses were submitted

to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts. All samples were submitted under chain-of-custody.

A summary of all analytical data is also provided in the RAM Plan submitted to MassDEP on November 24, 2010 (TRC, 2010).

On April 15, 2010, TRC conducted soil investigative sampling for polychlorinated dibenzo-p-dioxins (dioxins), polychlorinated dibenzofurans (furans) and dioxin-like PCBs (collectively referred to as dioxin-like compounds or congeners). A total of sixteen samples were collected from five sampling locations, including sampling location HF-31D, and analyzed for dioxins and furans by SW-846 Method 8290 and dioxin-like PCB congeners by SW-846 Method 1668A by Analytical Perspectives of Wilmington, North Carolina. All samples were also analyzed for PCBs as Aroclors by NEA, and PAHs, MCP metals and mercury by Con-Test.

The sampling locations selected for supplemental dioxin-like compound characterization were five previous sample locations TRC identified as being representative and conservative for evaluating exposure risk associated from dioxin-like compounds based on a review of all soil data collected. This evaluation of sample locations was based on existing chemical signature and geographic coverage within the population of previous sample locations. In developing the investigation program for dioxin-like compound soil sampling at NBHS, TRC reviewed relevant soil data from the area focusing principally on metals, PAHs, SVOCs, and PCBs (homologs or Aroclors) to develop a process for sample selection, such as the combination of burning artifacts (ash, metals enrichment, and PAHs) and precursor chemicals (e.g., PCBs). Soil samples with concentrations greater than regulatory limits for PCBs, PAHs, and/or metals were evaluated to identify a population of samples for potential dioxin, furan, and dioxin-like PCB congener analyses. At each sample location, a sample was taken of the top one foot soil interval, the one to three foot soil interval, and the historic fill.

The results of the dioxin-like compound investigative sampling at sample location HF-31 are discussed in Section 3.3.3 of the RAM Plan submitted to MassDEP on November 24, 2010 (TRC, 2010).

II. RELEASE ABATEMENT MEASURE COMPLETION REPORT (310 CMR 40.0446)

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

(a) Description of Impacts, Site Conditions and Surrounding Receptors

Description of Impacts

As described previously, MassDEP tracks the release at the Site under RTN 4-15685. The impacted fill that has been noted on the Site is associated with historical landfill activities at the Site and the disposal of ash. Historical documentation indicates that the Site was an undeveloped wetland prior to the disposal activities.

Prior sample results from BETA at sample location HF-31 detected total PCBs at a concentration of 2.55 mg/kg in the 1 to 3 foot soil horizon, which exceeds the MCP Method 1 soil cleanup standards. In the vicinity of sample location HF-31, samples were collected at six sample locations in a grid pattern having a 10-foot lateral separation (sample locations identified as HF-31A, HF-31B, HF-31C, HF-31D, HF-31G, and HF-31H) at 0-1 foot and 1-3 foot intervals and analyzed for PCBs, cadmium, and lead for delineation purposes. Samples were collected at locations HF-31E and HF-31F, but not analyzed, as sample locations HF-31A and HF-31B exhibited acceptable results. Using MCP risk assessment procedures, the excavation area was determined to be bound by samples HF-31A, HF-31B, HF-31G, and HF-31H. The sample results are presented in Table 1. Sample locations are identified in Figure 2.

During the delineation of PCB impacted soils at sample location HF-31, PCBs were detected at sample location HF-31D at a concentration of 71.6 milligrams per kilogram (mg/kg) in the 1-3 foot sampling interval. As PCBs were detected at a concentration greater than 50 mg/kg in soils, and meet the definition of PCB Remediation Waste (as defined in 40 CFR §761.3), the remediation activity at sample location HF-31D described in the RAM Plan was designed to comply with both 40 CFR 761 and the MCP.

A PCB Remediation Notification letter was issued by the City to the EPA on July 14, 2010 (Appendix A). Following a teleconference with the EPA Region 1 PCB Coordinator, an amendment to the PCB Remediation Notification letter was issued to EPA on October 21, 2010, which served to clarify issues discussed during the teleconference (Appendix B).

The EPA issued a TSCA applicability letter to the City on December 2, 2010 (Appendix C). Following a 20-day public comment period, the MassDEP issued conditional approval to conduct the RAM Plan activities on February 4, 2011 (Appendix D).

Site Conditions

The subject of this RAM Plan occupies approximately 0.02 acres (850 square feet) and is located on the west side of the NBHS Campus in the vicinity of historical sample location HF-31. A Site location map is provided as Figure 1.

The NBHS Campus, including the vicinity of sample location HF-31, is underlain by topsoil and up to approximately 6 feet of anthropogenic fill material that includes sandy material with ash. In places, the ash includes broken glass, brick fragments, rubber, slag, coal, cinders, plastic and/or metallic fragments. Traces of fill were indentified in soils 6 inches below ground surface, with a defined layer of fill identified at 24 inches to 36 inches below ground surface. Fill thickness across the NBHS Campus ranges from 0.1 feet to 11.0 feet. Anthropogenic fill materials within the NBSH Campus are underlain by approximately 0.25 to 6.0 feet of native dark brown organic peat material, mixed with silt and clay in places from the wetland that predates the development of the area. Native soils below the organic peat are characterized by gray fine silty sands with trace gravel and/or medium sand in places.

Observation of Site soils and review of historic topographic maps indicates that surficial geology at the Site consists of glacial outwash sediments. Drumlins flank the Site to the east and west.

Based on review of the USGS Bedrock Geologic Map of Massachusetts (Zen et al., 1983), bedrock beneath the Site is light gray, pinkish-gray to tan, mafic-poor granite known as Alaskite.

Based on literature values, the peat layer is expected to exhibit low hydraulic conductivity, on the range of 10^{-6} to 10^{-3} centimeters per second (cm/sec), while glacial outwash deposits having relatively less fine material could exhibit a hydraulic conductivity range of 10^{-3} to 15 cm/sec. The hydraulic conductivity of the ash fill could be as low as approximately 4.4×10^{-5} cm/sec with higher hydraulic conductivities (10^{-1} cm/sec) a possibility depending on the relative amounts of sand and ash. Since the deposition in the fill material is fairly loose, based on observations made during boring advancement, the hydraulic conductivity of the fill material is estimated to be higher than the underlying peat layer.

The City of New Bedford receives an average of 47.34 inches of precipitation annually (www.fedstats.gov). There are no surface water bodies at the NBHS Campus.

Surrounding Receptors

The Site lies within 500 feet of residential properties and also includes the following properties and land uses:

- The remainder of the NBHS Campus, including the NBHS building located to the east of the Site;
- The Keith Middle School (KMS) Campus is located west of the Site (across Hathaway Boulevard); and
- Residential properties are located across Hathaway Boulevard southwest of the Site.

Groundwater categories at the Site include actual or potential GW-2, depending upon proximity to occupied structures (groundwater is encountered at approximately 4-7 feet below ground surface based on groundwater monitoring well installations at NBHS by TRC), and GW-3, which applies to all groundwater throughout the Commonwealth.

Based on review of on-line MassDEP Priority Resource Map data available from Massachusetts Geographic Information System (MassGIS), the Site is not located within a Current or Potential Drinking Water Source Area (MassGIS, 2008).

The Site is not located in a wetland resource area. No other documented sensitive ecological receptor areas (e.g., Areas of Critical Environmental Concern [ACECs]) are known to be located at or near the site. No municipal or residential wells are known to be within 500 feet of the Site.

(b) Description of RAM completed at the Site

Prior to excavation activities, confirmation sampling was performed in-situ near sample location HF-31D in accordance with 40 CFR §761 (Subpart O) as described below to establish pre-defined excavation boundaries. Confirmation samples were collected in accordance with 40 CFR §761.283 to evaluate excavation limits sufficient to remove all PCB Remediation Waste soils on December 8, 2010. Confirmatory samples were submitted to NEA for laboratory analysis of PCBs (SW-846 Method 8082A) and to Con-Test for analysis of RCRA 8 metals (SW-846 Methods 6010B / 7471B). Confirmatory samples were collected as follows:

- One sample per 1.5 meters of sidewall; and
- One sample in the center of each 1.5 meter grid at the bottom of the excavation.

A total of five soil samples (i.e., HF-31-BW, HF-31-NSW, HF-31-SSW, HF-31-ESW and HF-31-WSW) and one duplicate were submitted for laboratory analysis. Based on the analytical results of the confirmatory soil sampling, none of the confirmatory sample results indicated a total PCB concentration greater than or equal to 50 mg/kg. Table 2 presents a summary of the confirmatory soil sampling analytical results. Laboratory data packages associated with the confirmatory soil sampling are included as Appendix E.

One additional soil sample (i.e., HF-31-DS) was collected on December 8, 2010 for the purposes of obtaining pre-approval of soil acceptance from a permitted disposal facility prior to excavation activities related to MCP risk reduction goals. Table 3 presents a summary of the soil disposal characterization sampling analytical results. Laboratory data packages associated with the soil disposal characterization sampling are included as Appendix F.

Following Dig-Safe[®] notification, RAM activities including site preparation, soil excavation, offsite transportation and disposal of impacted soil material and backfilling activities were implemented between February 22, 2011 and February 24, 2011. A photographic log of RAM related activities is presented as Appendix G.

On February 22, 2011, personnel from TRC and the City's Department of Public Infrastructure (DPI) mobilized to the Site to implement and oversee RAM preparation activities. A temporary

chain-link perimeter fence, including one lockable access gate, was erected around the work zone by Valtran[®] of New Bedford, Massachusetts. The DPI also placed steel plating throughout the work zone to protect areas outside the excavation limits within the work zone during mobilization, excavating, staging and demobilization. As the Site generally exhibits a flat topography, and there are no catch basins located in the vicinity of the excavations, the use of sedimentation and erosion control measures were not implemented based on field observations.

Land Planning also located and pre-marked the pre-determined excavation limits of soil categorized as PCB Remediation Waste (i.e., soil boring locations HF-31-BW, HF-31-NSW, HF-31-SSW, HF-31-ESW and HF-31-WSW) and soil targeted for removal to accomplish the MCP risk reduction goals (i.e., soil boring locations HF-31A, HF-31B, HF-31G and HF-31H) on February 14, 2011. A map showing the approximate location and extents of the excavation activities is included as Figure 3.

The City's DPI performed all soil excavation activities. Soil excavation activities commenced on February 23, 2011 with removal of the soil categorized as PCB Remediation Waste. A Deere 160 LC excavator was used by DPI throughout implementation of the RAM Plan. Triumvirate Environmental, Incorporated (TEI) of Somerville, Massachusetts was contracted by the City to facilitate offsite transportation and disposal of the soil classified as PCB Remediation Waste. The impacted soil was directly loaded into a total of seven lined cubic yard boxes. The cubic yard boxes were staged on wooden pallets underlain by 6 mil polyethylene sheeting during soil loading activities. Per the MassDEP approved RAM Plan and the EPA's request, to ensure that all PCB Remediation Wastes were removed, the pre-determined excavation limits were over excavated by approximately 6 to 12 inches. The total depth of the excavation was confirmed using a laser level. Each cubic yard box was subsequently loaded onto a truck and transported offsite for disposal at the EQ-Wayne Disposal, Incorporated chemical waste landfill facility in Bellville, Michigan per the TSCA applicability letter from the EPA to the City dated December 2, 2010 (Appendix C).

Following completion of the excavation of soil material categorized as PCB Remediation Waste, all equipment (e.g., excavator bucket and shovels) that had come into direct contact with soils determined to be actual or potential PCB Remediation Waste was decontaminated. As described in the RAM Plan, the City employed a prescriptive decontamination approach per 40 CFR Part 761.79(c)(2)(ii). Moveable equipment and tools were swabbed with a solvent (i.e., Zep Heavy-Duty Degreaser).

Under the self-implementing decontamination approach, where solvent containing rags may be used to swab/decontaminate non-porous surfaces, spent solvents and solvent soaked rags were managed for disposal via incineration at a permitted facility per 40 CFR Part 761.79(g)(3), (4) or (5). Such materials were transported offsite for disposal at the EQ-Wayne, Michigan facility in association with the cubic yard boxes.

Non-liquid cleaning materials (e.g., rags and gloves) and personal protective equipment (PPE) waste were managed in accordance with §761.61(a)(5)(v), which allows for disposal as solid waste.

Following completion of the removal of soil material categorized as PCB Remediation Waste, the open excavation was covered with polyethylene sheeting as a precautionary measure, and all equipment was staged and secured.

On February 24, 2011, to accomplish the MCP risk reduction goals, excavation activities continued to the pre-determined limits bound by samples HF-31A, HF-31B, HF-31G, and HF-31H (see Figure 3). All excavated soils were live loaded directly into lined City-owned trucks for offsite transportation and disposal at the Greater New Bedford Regional Refuse Management District - Crapo Hill Landfill in New Bedford, Massachusetts.

Once excavation activities were completed, the final limits and depth of the excavation were surveyed by Land Planning (see Figure 3).

Backfilling commenced with the placement of documented clean imported borrow material. The backfill was placed in the excavation and brought up on approximately level twelve inch lifts. Each lift of material was mechanically compacted so as to secure a dense, stable and thoroughly compacted mass using a remote controlled Wacker Neuson RT Trench Roller. Backfilling with imported borrow continued until the excavation was brought up approximately 6-inches below grade to allow for placement of documented clean imported loam, and subsequent re-seeding. Backfilling with imported loam was also completed on February 24, 2011 using a front-end loader, bringing the excavation up to final grade. Reseeding is anticipated to be completed in Spring 2011.

All backfill material, including borrow and loam, were imported from documented contaminant-free sources. The sources were considered contaminant-free when any analytical detections encountered were below the MCP Method 1 S-1 soil standards for the following analyses:

- Volatile Organic Compounds via SW-846 Method 8260B;
- Semivolatile Organic Compounds via SW-846 Method 8270C;
- Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons via MassDEP methodologies;
- Polychlorinated Biphenyls via SW-846 Method 8082;
- RCRA-8 Metals (via SW-846 Methods 6010B/7471A); and
- Pesticides/Herbicides via SW-846 Methods 8081A/8151A.

Laboratory analytical data associated with the imported borrow and loam materials are included as Appendix H.

Although vehicle and heavy equipment traffic was localized to paved and plated areas, any vehicles moving within the work zone were visually inspected to ensure no visible soil materials were present on the body or on the tires. Following completion of the backfilling activities, the plating and temporary fencing were removed.

(c) Investigatory and Monitoring Data

Investigatory activities were not performed as part of the RAM, but rather in advanced of RAM activities as described herein. However, TRC provided professional field oversight and conducted dust monitoring and VOC field screening with a calibrated photoionization detector (PID) during soil excavation, removal/hauling and backfilling activities, as described below and elsewhere herein.

Fugitive dust levels were also monitored with TSI Model 8520 DustTrak™ Aerosol Monitoring units as described in the RAM Plan. Data was downloaded daily and is included along with daily log sheets as Appendix I. The TSI DustTrak™ units were equipped with size-selective inlet for particles of 10 micrometers in diameter or less (PM₁₀). This instrumentation has an accuracy of 0.001 mg/m³ (1 µg/m³). Background levels were recorded for at least 15 minutes prior to the start of daily activities. The dust monitoring instruments were placed in weatherproof cases with an omni-directional probe to minimize wind interference. The dust monitoring units were placed upwind, downwind, and between the work zone and New Bedford High School and adjusted, as needed, based on changes in the localized wind direction. The dust monitoring instruments were zeroed daily before use and at the end of the day.

Data were logged at 60-second intervals and downloaded and reviewed daily. Please note that, due to an oversight during the calibration procedure, data logged on a one second interval (rather than the prescribed one minute interval) at the “work zone” monitoring location. As a result, only the summary sheet is included in Appendix I. Visual monitoring by onsite personnel did not indicate a fugitive dust concern during this time period.

No sustained (a sustained reading would consist of a reading lasting 15 minutes or longer) ambient dust levels exceeding the prescribed EPA 24 hour National Ambient Air Quality Standard (NAAQS) action limit of 150 µg/m³ at a downwind sample location (or any other dust monitoring location) were detected during any of the RAM activities. A summary of the dust monitoring data is provided as Table 4.

Ambient air was also continuously monitored during all RAM related excavation activities for the presence of VOCs within the breathing zone in the work zone using a PID. MassDEP jar headspace field screening of excavated soil was also conducted periodically during excavation as a precautionary check for the presence of VOCs. The jar headspace samples were capped and allowed to sit for minimum 10 minutes in order for adequate headspace to develop. No PID readings above background were detected in the work zone or jar headspace samples throughout the course of the project.

(d) Findings and Conclusions

The area at sample location HF-31 was identified for targeted soil removal to achieve a Condition of No Significant Risk under the MCP for the top three feet of soil at the NBHS Campus. Based on characterization performed in advance to delineate the soil area targeted for remediation, TRC used a Method 1 / Method 2 risk characterization approach to demonstrate that a Condition of No Significant Risk will exist for soil at the NBHS Campus for the top 3 feet of

soil following removal throughout the NBHS Campus. Ultimately, when the remedial actions have been completed and a Condition of No Significant Risk has been achieved for the top 3 feet of soils, an Activity and Use Limitation (AUL) will be placed on the property to control certain site uses and activities to achieve a Response Action Outcome (RAO).

The proposed work performed under this RAM served to remove the EPA-regulated PCB Remediation Waste soil and to reduce current and future risks at the sample location HF-31 only. No other soil removal or remediation activities at the NBHS campus were addressed by the implementation of this RAM Plan.

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

All remediation waste generated during the course of this RAM Plan has been properly characterized, loaded and transported offsite for proper management as described herein.

Backfilling and restoration of the excavation were completed on February 24, 2011 with the placement and regrading of the imported loam material. As previously noted, following laboratory analytical testing of confirmatory samples to determine the limits of the PCB Remediation Waste soil excavation, the soil material was accepted for disposal at the EQ-Wayne chemical waste landfill facility in Bellville, Michigan. A total of seven cubic yard boxes of soil material were transported offsite on February 23, 2011. A copy of the associated Uniform Hazardous Waste Manifest is included as Appendix J.

As previously described, TRC collected one soil characterization sample for the purposes of obtaining pre-approval of soil acceptance from a permitted disposal facility prior to excavation activities related MCP risk reduction goals. The soil characterization laboratory analytical results were compared against Massachusetts reuse, recycling, and disposal criteria in accordance to MassDEP Policy# COMM-97-001 (MassDEP, 1997) and Interim Policy #WSC-94-400 (MassDEP, 1994). Table 3 provides a summary of the laboratory analytical results and a copy of laboratory data packages has been included in Appendix F. The soil material met Massachusetts landfill criteria and the Crapo Hill Landfill facility in New Bedford, Massachusetts accepted it for disposal. Offsite transportation of the soil material was completed on February 24, 2011. A total of approximately 168-tons of soil were shipped to the facility. A copy of the BOL associated with the transportation and disposal of soil at the Crapo Hill Landfill is included as Appendix K.

No additional remediation waste, remedial wastewater or remedial additives were managed under this RAM Plan.

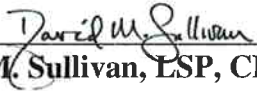
(f) Ongoing Activities

Field remedial activities related to this RAM Plan are finished. A condition of No Significant Risk will be achieved at the NBHS Campus following completion of additional remedial activities. Following the future submittal of an RAO and AUL for the NBHS Campus, conditions at the facility can be effectively and safely maintained by the City.

(g) LSP Opinion

The objective of this RAM Completion report is to apprise MassDEP of the completion of the City's activities at the HF-31 sample location within the NBHS Campus.

This RAM Completion Report has been prepared in accordance with 310 CMR 40.0446 as set forth in the MCP.



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3/29/2011

Date



Stamp

III. REFERENCES

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TABLES

TABLE 1
Summary of Analytical Detected Results for HF-31 Area Soil Samples
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:						HF31-0.5-1+2.5-3	HF-31A		HF-31B		HF-31C			HF-31D		HF-31G	HF-31H
		Sample Depth (ft.):						0.5-3	0-1	1-3	0-1	1-3	0-1	1-3	1-3	0-1	1-3	1-3	1-3
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1**	TSCA	12/30/2004	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009
PCBs (mg/kg)	Aroclor 1254	2	2	3	3	2	1	2.26	1.35 J	2.49 J	0.310 J	2.66 J	2.88 J	5.32 J	7.31 J	0.597 J	71.6 J	0.334 J	0.565 J
	Aroclor 1260	2	2	3	3	2	1	0.056 U	0.291 J	0.217 U	0.0554 U	0.219 U	0.571 U	0.376 U	0.550 U	0.0532 U	3.36 U	0.0535 U	0.355 J
	Aroclor 1262	2	2	3	3	2	1	0.293	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total PCBs	2	2	3	3	2	1	2.553	1.641 J	2.49 J	0.310 J	2.66 J	2.88 J	5.32 J	7.31 J	0.597 J	71.6 J	0.334 J	0.920 J
Metals (mg/kg)	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	2	2	30	30	2	N/A	NA	0.51	0.47	0.41	0.49	0.29	0.34	NA	0.62	1.24	NA	NA
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Lead	300	300	300	300	300	N/A	NA	194	168	79.7	164	31.5	82.9	NA	192	441	NA	NA
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value; below quantitation limit.
NA - Sample not analyzed for the listed analyte.
N/A - Not applicable.
U - Compound was not detected at specified quantitation limit.
Values in Bold indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards or TCLP criteria.
Values shown in bold and outlined exceed TSCA but are less than the listed MassDEP Method 1 standards.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

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

** - for Reference purposes only.

Table 2
Summary of Confirmatory Soil Sampling Analytical Results
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: HF-31-BW				HF-31-ESW		HF-31-NSW	HF-31-SSW	HF-31-WSW	
		Sample Depth (ft.): 1-3/3				12/8/2010	12/8/2010	12/8/2010	12/8/2010	12/8/2010	
		Sample Date: 12/8/2010									Field Dup
		Method 1		Reuse Level*							
S-1/GW-2	S-1/GW-3	Lined Landfills	Unlined Landfill								
PCBs (mg/kg)	Aroclor-1016	2	2	N/A	N/A	0.111 U	0.0536 U	0.0542 U	0.0532 U	0.0526 U	0.0522 U
	Aroclor-1221	2	2	N/A	N/A	0.111 U	0.0536 U	0.0542 U	0.0532 U	0.0526 U	0.0522 U
	Aroclor-1232	2	2	N/A	N/A	0.111 U	0.0536 U	0.0542 U	0.0532 U	0.0526 U	0.0522 U
	Aroclor-1242	2	2	N/A	N/A	0.111 U	0.0536 U	0.0542 U	0.0532 U	0.0526 U	0.0522 U
	Aroclor-1248	2	2	N/A	N/A	0.111 U	0.0536 U	0.0542 U	0.0532 U	0.0526 U	0.0522 U
	Aroclor-1254	2	2	N/A	N/A	2.79	0.594	0.587	0.461	0.584	1.29
	Aroclor-1260	2	2	N/A	N/A	0.640	0.109	0.132	0.145	0.146	0.692
Total PCBs	2	2	<2	<2	3.43	0.703	0.719	0.606	0.730	1.982	
Metals, total (mg/kg)											
	Arsenic	20	20	40	40	2.7 U	NA	NA	NA	NA	NA
	Barium	1000	1000	N/A	N/A	55	NA	NA	NA	NA	NA
	Cadmium	2	2	80	30	0.42	NA	NA	NA	NA	NA
	Chromium	30	30	1,000	1,000	7.6	NA	NA	NA	NA	NA
	Lead	300	300	2,000	2,000	73	NA	NA	NA	NA	NA
	Mercury	20	20	10	10	0.082	NA	NA	NA	NA	NA
	Selenium	400	400	N/A	N/A	5.5 U	NA	NA	NA	NA	NA
	Silver	100	100	N/A	N/A	0.55 U	NA	NA	NA	NA	NA
Metals, TCLP (mg/L)	Lead	5**	N/A	N/A	N/A	0.15	NA	NA	NA	NA	NA

Notes:

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

mg/L - milligrams per liter.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

ND - Not detected.

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

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

Values shown in **Bold and shaded type** exceed one or more of the listed MassDEP Method 1 standards and Reuse levels.

PCBs - Polychlorinated Biphenyls.

TCLP - Toxicity Characteristic Leaching Procedure.

* - Contaminant Levels for the Reuse and Disposal of Contaminated Soil at Massachusetts Landfills, August 1997.

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

Table 3
Summary of Soil Disposal Characterization Analytical Results
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: HF-31-DS				Sample Depth (ft.):	Sample Date: 12/8/2010
		Method 1		Reuse Level*			
		S-1/GW-2	S-1/GW-3	Lined Landfills	Unlined Landfill		
VOCs (mg/kg)	Acetone	50	400	N/A	N/A	0.079	U
	tert-Amyl Methyl Ether (TAME)	NS	NS	N/A	N/A	0.00079	U
	Benzene	30	30	N/A	N/A	0.0016	U
	Bromobenzene	NS	NS	N/A	N/A	0.0016	U
	Bromochloromethane	NS	NS	N/A	N/A	0.0016	U
	Bromodichloromethane	0.1	20	N/A	N/A	0.0016	U
	Bromoform	1.0	200	N/A	N/A	0.0016	U
	Bromomethane	0.5	30	N/A	N/A	0.0079	U
	2-Butanone (MEK)	50	400	N/A	N/A	0.032	U
	n-Butylbenzene	100 ^(b)	100 ^(b)	N/A	N/A	0.0032	U
	sec-Butylbenzene	100 ^(b)	100 ^(b)	N/A	N/A	0.0016	U
	tert-Butylbenzene	100 ^(b)	100 ^(b)	N/A	N/A	0.0016	U
	tert-Butyl Ethyl Ether (TBEE)	NS	NS	N/A	N/A	0.0016	U
	Carbon Disulfide	NS	NS	N/A	N/A	0.0048	U
	Carbon Tetrachloride	5	10	N/A	N/A	0.0032	U
	Chlorobenzene	3	100	N/A	N/A	0.0016	U
	Chlorodibromomethane	0.03	20	N/A	N/A	0.0032	U
	Chloroethane	NS	NS	N/A	N/A	0.0079	U
	Chloroform	0.3	400	N/A	N/A	0.0032	U
	Chloromethane	NS	NS	N/A	N/A	0.0079	U
	2-Chlorotoluene	NS	NS	N/A	N/A	0.0016	U
	4-Chlorotoluene	NS	NS	N/A	N/A	0.0016	U
	1,2-Dibromo-3-chloropropane (DBCP)	NS	NS	N/A	N/A	0.0016	U
	1,2-Dibromoethane (EDB)	0.1	0.7	N/A	N/A	0.00079	U
	Dibromomethane	NS	NS	N/A	N/A	0.0016	U
	1,2-Dichlorobenzene	30	300	N/A	N/A	0.0016	U
	1,3-Dichlorobenzene	40	100	N/A	N/A	0.0016	U
	1,4-Dichlorobenzene	4	50	N/A	N/A	0.0016	U
	Dichlorodifluoromethane (Freon 12)	NS	NS	N/A	N/A	0.0079	U
	1,1-Dichloroethane	5	500	N/A	N/A	0.0016	U
	1,2-Dichloroethane	0.1	10	N/A	N/A	0.0016	U
	1,1-Dichloroethylene	40	500	N/A	N/A	0.0032	U
	cis-1,2-Dichloroethylene	0.4	100	N/A	N/A	0.0016	U
	trans-1,2-Dichloroethylene	1.0	500	N/A	N/A	0.0016	U
	1,2-Dichloropropane	0.1	10	N/A	N/A	0.0016	U
	1,3-Dichloropropane	NS	NS	N/A	N/A	0.00079	U
	2,2-Dichloropropane	NS	NS	N/A	N/A	0.0016	U
	1,1-Dichloropropene	NS	NS	N/A	N/A	0.0016	U
	cis-1,3-Dichloropropene	0.4 ^(d)	9 ^(d)	N/A	N/A	0.0016	U
	trans-1,3-Dichloropropene	0.4 ^(d)	9 ^(d)	N/A	N/A	0.0032	U
	Diethyl Ether	NS	NS	N/A	N/A	0.0079	U
	Diisopropyl Ether (DIPE)	NS	NS	N/A	N/A	0.0016	U
	1,4-Dioxane	6	70	N/A	N/A	0.16	U
	Ethylbenzene	500	500	N/A	N/A	0.0016	U
	Hexachlorobutadiene	6	6	N/A	N/A	0.0016	U
	2-Hexanone (MBK)	NS	NS	N/A	N/A	0.016	U
	Isopropylbenzene (Cumene)	100 ^(b)	100 ^(b)	N/A	N/A	0.0032	U
	p-Isopropyltoluene (p-Cymene)	100 ^(b)	100 ^(b)	N/A	N/A	0.0016	U
	Methyl tert-Butyl Ether (MTBE)	100	100	N/A	N/A	0.0032	U
	Methylene Chloride	20	200	N/A	N/A	0.0079	U
	4-Methyl-2-pentanone (MIBK)	50	400	N/A	N/A	0.016	U
	Naphthalene	40	500	N/A	N/A	0.0079	U

Table 3
Summary of Soil Disposal Characterization Analytical Results
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: HF-31-DS				Sample Depth (ft.):	Sample Date: 12/8/2010
		Method 1		Reuse Level*			
		S-1/GW-2	S-1/GW-3	Lined Landfills	Unlined Landfill		
	n-Propylbenzene	100 ^(D)	100 ^(D)	N/A	N/A	0.0016 U	
	Styrene	4	30	N/A	N/A	0.0016 U	
	1,1,1,2-Tetrachloroethane	0.1	7	N/A	N/A	0.0016 U	
	1,1,2,2-Tetrachloroethane	0.02	0.8	N/A	N/A	0.00079 U	
	Tetrachloroethylene	10	30	N/A	N/A	0.0016 U	
	Tetrahydrofuran	NS	NS	N/A	N/A	0.0079 U	
	Toluene	500	500	N/A	N/A	0.0016 U	
	1,2,3-Trichlorobenzene	NS	NS	N/A	N/A	0.0079 U	
	1,2,4-Trichlorobenzene	70	500	N/A	N/A	0.0079 U	
	1,1,1-Trichloroethane	500	500	N/A	N/A	0.0016 U	
	1,1,2-Trichloroethane	2	4	N/A	N/A	0.0016 U	
	Trichloroethylene	2	90	N/A	N/A	0.0016 U	
	Trichlorofluoromethane (Freon 11)	NS	NS	N/A	N/A	0.0079 U	
	1,2,3-Trichloropropane	NS	NS	N/A	N/A	0.0016 U	
	1,2,4-Trimethylbenzene	100 ^(D)	100 ^(D)	N/A	N/A	0.0016 U	
	1,3,5-Trimethylbenzene	100 ^(D)	100 ^(D)	N/A	N/A	0.0016 U	
	Vinyl Chloride	0.6	0.6	N/A	N/A	0.0079 U	
	m+p Xylene	300	500	N/A	N/A	0.0032 U	
	o-Xylene	300	500	N/A	N/A	0.0016 U	
	Total VOCs	N/A	N/A	10	4	ND	
SVOCs (mg/kg)	Acenaphthene	1,000	1,000	N/A	N/A	0.18 U	
	Acenaphthylene	600	10	N/A	N/A	0.18 U	
	Anthracene	1,000	1,000	N/A	N/A	0.18	
	Benzo(a)anthracene	7	7	N/A	N/A	0.61	
	Benzo(a)pyrene	2	2	N/A	N/A	0.58	
	Benzo(b)fluoranthene	7	7	N/A	N/A	0.62	
	Benzo(g,h,i)perylene	1,000	1,000	N/A	N/A	0.42	
	Benzo(k)fluoranthene	70	70	N/A	N/A	0.23	
	Chrysene	70	70	N/A	N/A	0.65	
	Dibenz(a,h)anthracene	0.7	0.7	N/A	N/A	0.18 U	
	Fluoranthene	1,000	1,000	N/A	N/A	1.1	
	Fluorene	1,000	1,000	N/A	N/A	0.18 U	
	Indeno(1,2,3-cd)pyrene	7	7	N/A	N/A	0.54	
	2-Methylnaphthalene	80	300	N/A	N/A	0.18 U	
	Naphthalene	40	500	N/A	N/A	0.18 U	
	Phenanthrene	500	500	N/A	N/A	1.0	
	Pyrene	1,000	1,000	N/A	N/A	1.2	
	Acetophenone	NS	NS	N/A	N/A	0.37 U	
	Aniline	NS	NS	N/A	N/A	0.37 U	
	Bis(2-chloroethoxy)methane	NS	NS	N/A	N/A	0.37 U	
	Bis(2-chloroethyl)ether	0.7	0.7	N/A	N/A	0.37 U	
	Bis(2-chloroisopropyl)ether	0.7	3	N/A	N/A	0.37 U	
	Bis(2-Ethylhexyl)phthalate	200	200	N/A	N/A	0.37 U	
	4-Bromophenylphenylether	NS	NS	N/A	N/A	0.37 U	
	Butylbenzylphthalate	NS	NS	N/A	N/A	0.71 U	
	4-Chloroaniline	100	3	N/A	N/A	0.71 U	
	2-Chloronaphthalene	NS	NS	N/A	N/A	0.37 U	
	2-Chlorophenol	100	100	N/A	N/A	0.37 U	
	Dibenzofuran	NS	NS	N/A	N/A	0.37 U	
	1,2-Dichlorobenzene	30	300	N/A	N/A	0.37 U	
	1,3-Dichlorobenzene	40	100	N/A	N/A	0.37 U	
	1,4-Dichlorobenzene	4	50	N/A	N/A	0.37 U	
	3,3-Dichlorobenzidine	1	1	N/A	N/A	0.18 U	

Table 3
Summary of Soil Disposal Characterization Analytical Results
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: HF-31-DS				Sample Depth (ft.): Sample Date: 12/8/2010
		Method 1		Reuse Level*		
		S-1/GW-2	S-1/GW-3	Lined Landfills	Unlined Landfill	
	2,4-Dichlorophenol	60	40	N/A	N/A	0.37 U
	Diethylphthalate	200	300	N/A	N/A	0.37 U
	2,4-Dimethylphenol	100	500	N/A	N/A	0.37 U
	Dimethylphthalate	50	600	N/A	N/A	0.71 U
	Di-n-butylphthalate	NS	NS	N/A	N/A	0.37 U
	2,4-Dinitrophenol	50	50	N/A	N/A	0.71 U
	2,4-Dinitrotoluene	2	2	N/A	N/A	0.37 U
	2,6-Dinitrotoluene	NS	NS	N/A	N/A	0.37 U
	Di-n-octylphthalate	NS	NS	N/A	N/A	0.71 U
	1,2-Diphenylhydrazine (as Azobenzene)	NS	NS	N/A	N/A	0.37 U
	Hexachlorobenzene	0.7	0.7	N/A	N/A	0.37 U
	Hexachlorobutadiene	6	6	N/A	N/A	0.37 U
	Hexachloroethane	3	9	N/A	N/A	0.37 U
	Isophorone	NS	NS	N/A	N/A	0.37 U
	2-Methylphenol	NS	NS	N/A	N/A	0.37 U
	3/4-Methylphenol	NS	NS	N/A	N/A	0.37 U
	Nitrobenzene	NS	NS	N/A	N/A	0.37 U
	2-Nitrophenol	NS	NS	N/A	N/A	0.37 U
	4-Nitrophenol	NS	NS	N/A	N/A	0.71 U
	Pentachlorophenol	10	10	N/A	N/A	0.37 U
	Phenol	50	20	N/A	N/A	0.37 U
	1,2,4-Trichlorobenzene	70	500	N/A	N/A	0.37 U
	2,4,5-Trichlorophenol	1000	600	N/A	N/A	0.37 U
	2,4,6-Trichlorophenol	20	20	N/A	N/A	0.37 U
	Total SVOCs	N/A	N/A	100	100	7.13
PCBs (mg/kg)	Aroclor-1016	2	2	N/A	N/A	0.21 U
	Aroclor-1221	2	2	N/A	N/A	0.21 U
	Aroclor-1232	2	2	N/A	N/A	0.21 U
	Aroclor-1242	2	2	N/A	N/A	0.21 U
	Aroclor-1248	2	2	N/A	N/A	0.21 U
	Aroclor-1254	2	2	N/A	N/A	1.5
	Aroclor-1260	2	2	N/A	N/A	0.21 U
	Aroclor-1262	2	2	N/A	N/A	0.21 U
	Aroclor-1268	2	2	N/A	N/A	0.21 U
	Total PCBs	2	2	< 2	< 2	1.5
Pesticides (mg/kg)	Aldrin	0.04	0.04	N/A	N/A	0.053 U
	alpha-BHC	NS	NS	N/A	N/A	0.053 U
	beta-BHC	NS	NS	N/A	N/A	0.053 U
	delta-BHC	NS	NS	N/A	N/A	0.053 U
	gamma-BHC (Lindane)	0.7	0.5	N/A	N/A	0.021 U
	Chlordane	0.7	0.7	N/A	N/A	0.21 U
	4,4'-DDD	4	4	N/A	N/A	0.043 U
	4,4'-DDE	3	3	N/A	N/A	0.043 U
	4,4'-DDT	3	3	N/A	N/A	0.043 U
	Dieldrin	0.05	0.05	N/A	N/A	0.043 U
	Endosulfan I	200	1.0	N/A	N/A	0.053 U
	Endosulfan II	200	1.0	N/A	N/A	0.085 U
	Endosulfan Sulfate	NS	NS	N/A	N/A	0.085 U
	Endrin	8	8	N/A	N/A	0.085 U
	Endrin Ketone	NS	NS	N/A	N/A	0.085 U
	Heptachlor	0.2	0.2	N/A	N/A	0.053 U
	Heptachlor Epoxide	0.09	0.09	N/A	N/A	0.053 U
	Hexachlorobenzene	0.7	0.7	N/A	N/A	0.053 U
	Methoxychlor	200	200	N/A	N/A	0.53 U

Table 3
Summary of Soil Disposal Characterization Analytical Results
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte					Sample ID:	HF-31-DS
						Sample Depth (ft.):	
						Sample Date:	12/8/2010
		Method 1		Reuse Level*			
		S-1/GW-2	S-1/GW-3	Lined Landfills	Unlined Landfill		
Herbicides							
(mg/kg)	2,4-D	NS	NS	N/A	N/A	0.028	U
	2,4-DB	NS	NS	N/A	N/A	0.028	U
	2,4,5-TP (Silvex)	NS	NS	N/A	N/A	0.0028	U
	2,4,5-T	NS	NS	N/A	N/A	0.0028	U
	Dalapon	NS	NS	N/A	N/A	0.069	U
	Dicamba	NS	NS	N/A	N/A	0.0028	U
	Dichloroprop	NS	NS	N/A	N/A	0.028	U
	Dinoseb	NS	NS	N/A	N/A	0.014	U
	MCPA	NS	NS	N/A	N/A	2.8	U
	MCPP	NS	NS	N/A	N/A	2.8	U
Metals, total							
(mg/kg)	Arsenic	20	20	40	40	2.8	U
	Barium	1000	1000	N/A	N/A	100	
	Cadmium	2	2	80	30	0.67	
	Chromium	30	30	1,000	1,000	19	
	Lead	300	300	2,000	2,000	190	
	Mercury	20	20	10	10	0.090	
	Selenium	400	400	N/A	N/A	5.6	U
	Silver	100	100	N/A	N/A	0.56	U
Metals, TCLP							
(mg/L)	Lead	5**	N/A	N/A	N/A	0.062	
Reactivity							
(mg/kg)	Reactive Cyanide	N/A	N/A	< 250	< 250	4.0	U
	Reactive Sulfide	N/A	N/A	< 500	< 500	20	U
pH							
(s.u.)	pH	N/A	N/A	>2 <12.5	>2 <12.5	6.2	
Flashpoint							
(deg. F)	Flashpoint	N/A	N/A	N/A	N/A	> 212	
Ignitability							
	Ignitability	N/A	N/A	N/A	N/A	NI	

Notes:

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

mg/L - milligrams per liter.

deg. F - degree Fahrenheit.

s.u. - Standard unit.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

ND - Not detected.

NI - Not ignitable.

NS - No MassDEP standards exist for this analyte.

U - Compound was not detected at specified quantitation limit.

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

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards and Reuse levels.

VOCs - Volatile Organic Compounds.

SVOCs - Semivolatile Organic Compounds.

PAHs - Polynuclear Aromatic Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TCLP - Toxicity Characteristic Leaching Procedure.

(1) - MCP Method 1 standards and RC for C9-C10 aromatics used.

(2) - MCP RC for Dichloropropane used.

(3) - MCP RC for Dichloropropene used.

(4) - MCP Method 1 standards and RC for 1,3-Dichloropropene used.

* - Contaminant Levels for the Reuse and Disposal of Contaminated Soil at Massachusetts Landfills, August 1997.

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

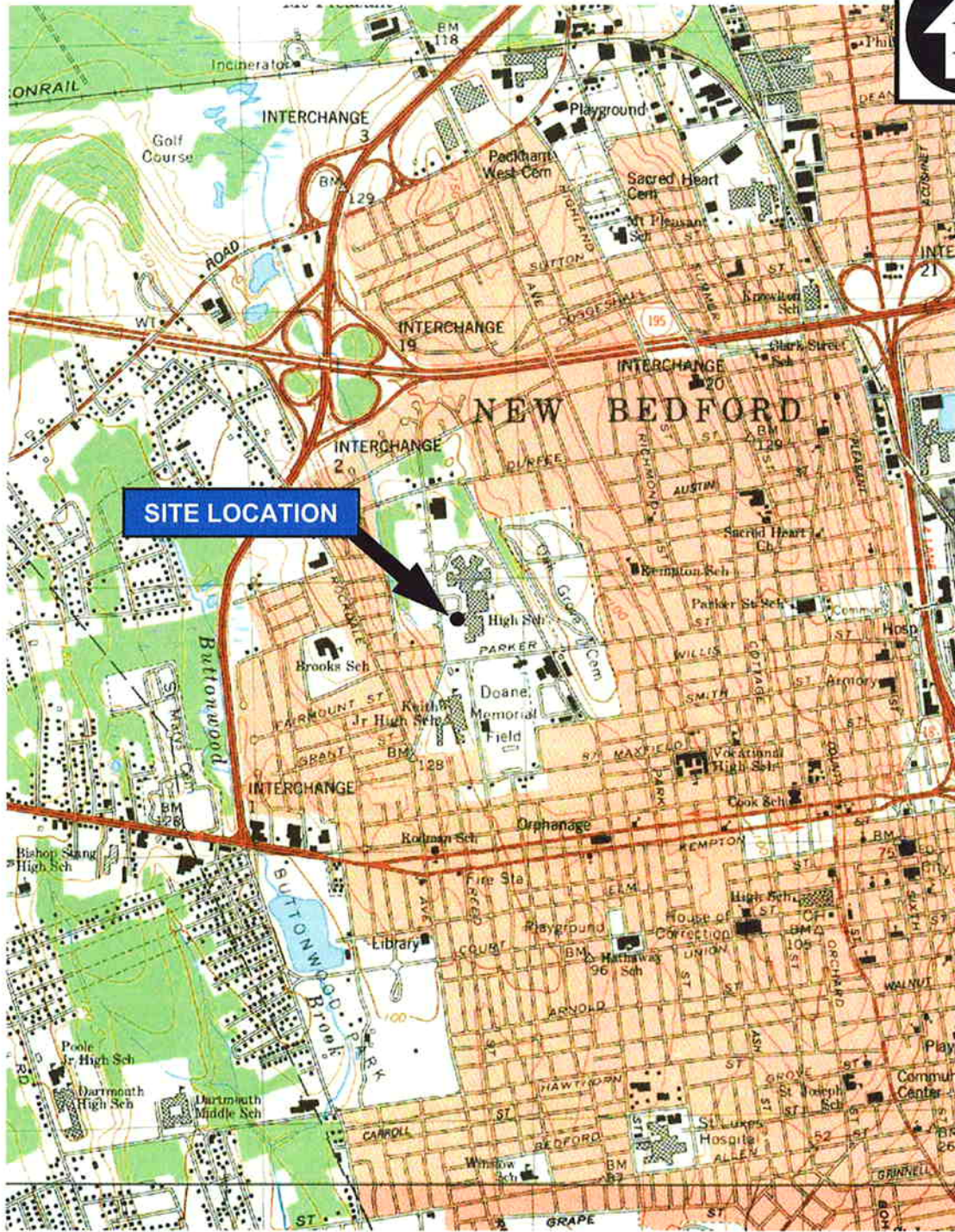
Table 4
DustTrak™ Data Summary
RAM Completion Report
New Bedford, Massachusetts

Date	DustTrak™ Serial Number	Test ID	Dust Monitoring Location	Maximum (mg/m ³)	Minimum (mg/m ³)	Average (mg/m ³)	Notes / Comments
2/23/2011	21537	Test 1	Upwind monitoring location	0.004	-0.002	-0.001	
	85200998	Test 1	Downwind monitoring location	0.021	-0.003	-0.001	
	23441	Test 1	Work zone / Nearest property monitoring location - between excavation and NBHS	5.847	0.004	0.0028	Unit recorded one second intervals due to programming error. Maximum momentary (1-second) value noted. No readings above action level.
2/24/2011	21537	Test 1	Upwind monitoring location until wind shift at 10:00 am (then Downwind location)	0.067	-0.008	-0.003	
	85200998	Test 1	Downwind monitoring location until wind shift at 10:00 am (then Upwind location)	0.014	-0.017	-0.011	
	23441	Test 1	Work zone / Nearest property monitoring location - between excavation and NBHS	-0.003	-0.041	-0.030	
	23441	Test 2	Work zone / Nearest property monitoring location - between excavation and NBHS	0.008	0.008	0.008	
	23441	Test 3	Work zone / Nearest property monitoring location - between excavation and NBHS	0.000	-0.031	-0.020	
	23441	Test 4	Work zone / Nearest property monitoring location - between excavation and NBHS	0.535	-0.025	0.017	Nine momentary (1 minute) detections above 0.150 mg/m3.

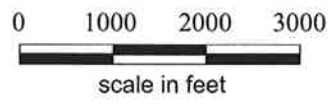
NOTES:

- mg/m³ = milligrams per cubic meter.
- TSI Dusttrak™ units equipped with size-selective inlet for particles of 10 micrometers in diameter or less (PM₁₀).
- Exceedences listed in Table 1 (highlighted in red) are for one minute intervals. Site action level consists of sustained ambient dust levels that exceed the EPA National Ambient Air Quality Standard (NAAQS) of 150 µg/m³ at downwind sampling locations (a sustained reading would consist of a reading lasting 15 minutes or longer).

FIGURES



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' X 15' USGS TOPOGRAPHIC QUADRANGLES: NEW BEDFORD NORTH, MA, 1979; NEW BEDFORD SOUTH, MA 1977



**NEW BEDFORD HIGH SCHOOL
NEW BEDFORD, MASSACHUSETTS**

PCB REMEDIATION SITE LOCATION MAP

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

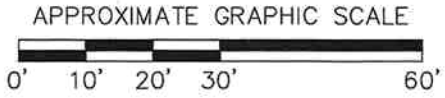
**FIGURE
1**

Drawn: HWB
Checked: DP
SCALE: AS SHOWN
Date: JUNE 2010

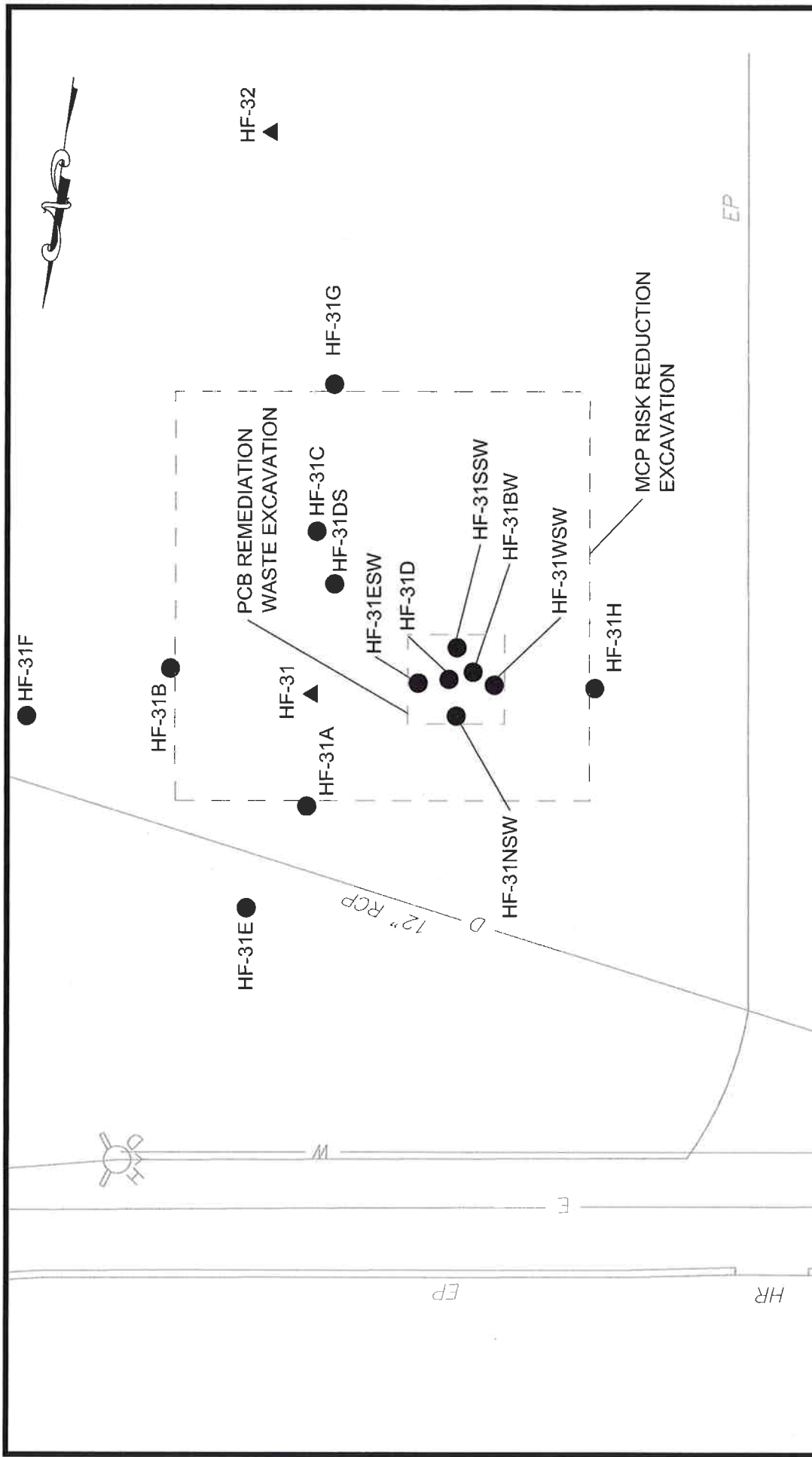


LEGEND:

●	BETA BORINGS
●	TRC BORINGS



NEW BEDFORD HIGH SCHOOL NEW BEDFORD, MASSACHUSETTS	
HF-31 AREA SAMPLE LOCATIONS	
	Wannancit Mills 650 Suffolk Street Lowell, MA 01854 (978) 970-5600
	FIGURE 2
DRAWN BY: HWB CHECKED BY: DNP	DATE: AUG 2010



ENVIRONMENTAL INVESTIGATION AND RELATED ENVIRONMENTAL CONSULTING SERVICES
 NEW BEDFORD HIGH SCHOOL & SURROUNDING NEIGHBORHOOD
 NEW BEDFORD, MASSACHUSETTS

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

HF-31 AREA EXCAVATION LOCATIONS

DRAWN BY: HWB
 CHECKED BY: JBS

DATE: MARCH 2011

FIGURE 3

LEGEND:

- HF-31 ▲ APPROXIMATE BETA SOIL BORING LOCATION
- HF-31G ● TRC SOIL BORING LOCATION
- APPROXIMATE EXCAVATION EXTENTS

APPROXIMATE GRAPHIC SCALE
 0' 5' 10' 20'

APPENDIX A

Copy of PCB Remediation Notification Letter



ENVIRONMENTAL STEWARDSHIP DEPARTMENT/

NEW BEDFORD CONSERVATION COMMISSION

CITY OF NEW BEDFORD
SCOTT W. LANG, MAYOR

July 14, 2010

Kimberly N. Tisa, PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, Massachusetts 02109-3912

RE: Polychlorinated Biphenyl (PCB) Remediation Notification Letter
New Bedford High School Release Abatement Measure Plan
230 Hathaway Boulevard, New Bedford, Massachusetts 02740

Dear Ms. Tisa:

This letter serves as notification that the City of New Bedford (City) will conduct a performance-based disposal action to remove PCB Remediation Waste (soil) at the New Bedford High School (NBHS) property located at 230 Hathaway Boulevard, New Bedford, Massachusetts consistent with 40 CFR Subpart 761.61(b). The removal will take place during the performance of a Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) Release Abatement Measure (RAM) to address impacted soils at NBHS. This disposal activity will achieve compliance with both 40 CFR Part 761 and the MCP. The activity will center on soil removal in the vicinity of soil boring HF-31 on the west side of the NBHS campus (see Figure 1).

PCBs were detected at a concentration greater than 50 milligrams per kilogram (mg/kg) during the delineation of PCB impacted soils at sample location HF-31. At sample location HF-31, samples were collected at six sample locations in a grid pattern having a 10-foot lateral separation around the original sampling point (sample locations identified as HF-31A, HF-31B, HF-31C, HF-31D, HF-31G, and HF-31H) at 0-1 foot and 1-3 foot intervals and analyzed for PCBs, cadmium, and lead for delineation purposes. Samples were collected at locations HF-31E and HF-31F, but not analyzed, as sample locations HF-31A and HF-31B exhibited acceptable results. Total PCBs were detected at sample location HF-31D at 71.6 mg/kg in the 1-3 foot sampling interval. Using MCP risk assessment procedures, the excavation area was determined to be bound by samples HF-31A, HF-31B, HF-31G, and HF-31H. The removal of the pre-defined area of soil will meet MCP risk reduction goals and will result in the removal of all soils shown to exhibit a total PCB concentration greater than or equal to 50 mg/kg. The sample results are presented in Table 1. Sample locations are identified in Figure 2.

TRC estimates that approximately 140-145 tons of impacted soil will be excavated, loaded directly into lined storage containers, and then all the excavated soils will be transported for disposal to either Model City in New York or the EQ/Wayne Disposal Landfill in Michigan. The dimensions of area to be excavated are approximately 29 feet by 29 feet by 3 feet deep.

Following completion of this excavation, confirmation samples will be taken to confirm that all PCB Remediation Wastes have been removed. Confirmatory samples will be taken as follows:

- One sample per fifteen feet of sidewall (two samples per sidewall for a total of eight samples), and ;
- One sample in the center of each of four fifteen foot grids at the bottom of the excavation, to be composited into one composite sample (individual samples from each grid to be collected and held.

Additional excavation of soils will be performed if any confirmatory sample result is greater than or equal to 50 mg/kg, or if additional excavation is required to achieve MCP risk reduction goals. Additional confirmatory samples will be taken following the additional excavation consistent with the above.

All records of the excavation, confirmatory sampling, manifests, and certificates of disposal for this performance based disposal activity will be maintained and included in either a MCP RAM Status Report, or a MCP RAM Completion Report, as appropriate. The RAM-related MCP documents will be available for inspection at any time by a representative of the United States Environmental Protection Agency (EPA) at the Massachusetts Department of Environmental Protection Office located in Lakeville, Massachusetts or on the City of New Bedford's website.

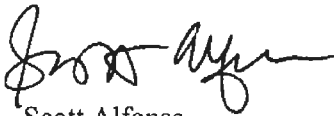
Representative quality control samples will also be collected during implementation of this excavation. This will include field duplicate, matrix spike and matrix spike duplicate samples collected at a frequency of one per twenty samples.

All sampling equipment will be decontaminated prior to use and between each discreet sample in accordance with the self-implementing decontamination procedures as set forth under 40 CFR Part 761.79(c)(2)(i) consisting principally of a solvent swab of tools, moveable equipment, and sampling implements that come into direct contact with potentially contaminated soil. Under the self-implementing decontamination approach, spent solvents and solvent soaked rags from decontamination activities will be managed for disposal via incineration at an appropriately permitted facility per 40 CFR Part 761.79(g)(3), (4) or (5).

The sampling will be performed in accordance with TRC's site-specific health and safety plan (HASp) which outlines the anticipated hazards associated with above referenced properties.

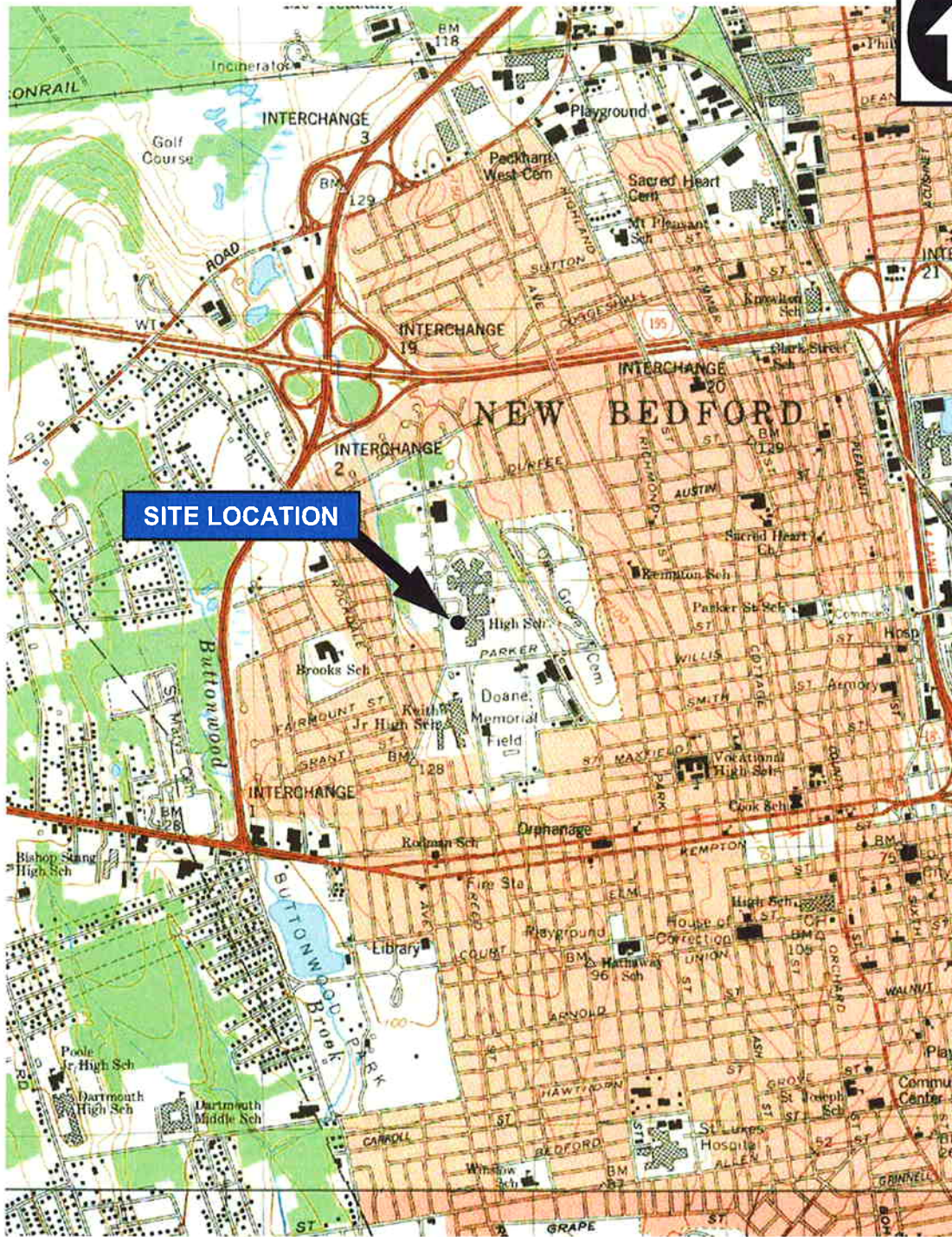
If you have any questions concerning this letter, please do not hesitate to contact me at 508-991-6188.

Sincerely,

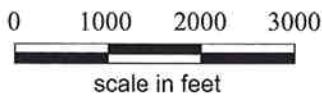


Scott Alfonse
Director

cc. Molly Cote, Massachusetts Department of Environmental Protection (by electronic PDF)
Cheryl Henlin, City of New Bedford (by electronic PDF)
David M. Sullivan, LSP, CHMM, TRC (by electronic PDF)



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' X 15' USGS
 TOPOGRAPHIC QUADRANGLES: NEW BEDFORD NORTH, MA, 1979;
 NEW BEDFORD SOUTH, MA 1977



**NEW BEDFORD HIGH SCHOOL
 NEW BEDFORD, MASSACHUSETTS**

PCB REMEDIATION SITE LOCATION MAP

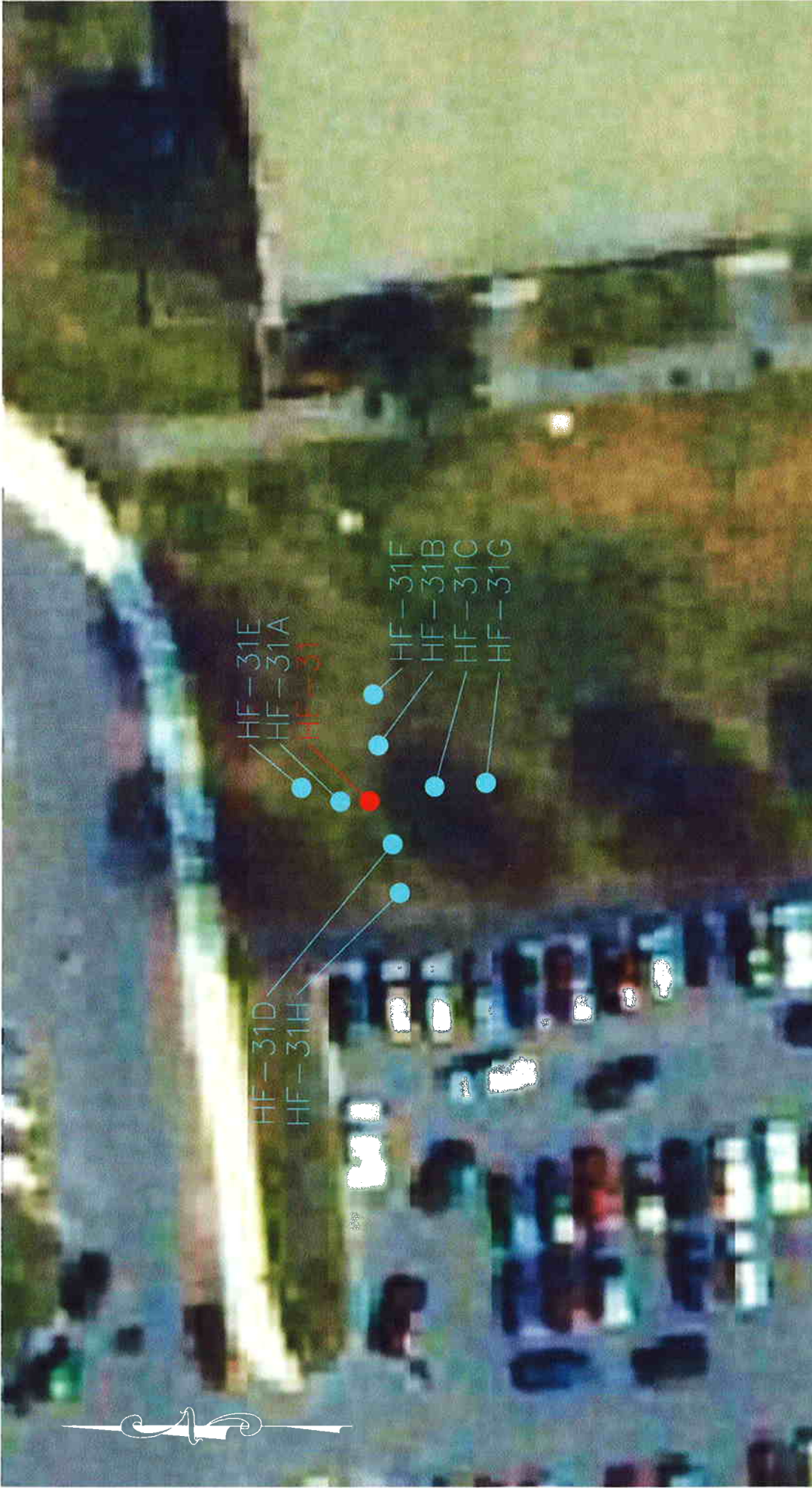


Wannalancit Mills
 650 Suffolk Street
 Lowell, MA 01854
 978-970-5600

**FIGURE
 1**

Drawn: HWB
 Checked: DP

SCALE: AS SHOWN
 Date: JUNE 2010



LEGEND:

- BETA BORINGS
- TRC BORINGS



NEW BEDFORD HIGH SCHOOL
NEW BEDFORD, MASSACHUSETTS

PCB REMEDIATION
SAMPLE LOCATIONS

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

DATE: JUNE 2010

DRAWN BY: HWB
CHECKED BY: DNP

FIGURE
2

Table 1
Summary of Analytical Results for Soil Samples
New Bedford High School - HF-31 Area
New Bedford, Massachusetts

Analysis	Analyte	Sample Location:							HF31-0.5-1+2.5-3		HF-31A		HF-31B		HF-31C			HF-31D		HF-31G	HF-31H
		Sample Depth (ft.):							0.5-3	0-1	1-3	0-1	1-3	0-1	1-3	1-3	0-1	1-3	1-3	1-3	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RCS-1**	TSCA	12/30/2004	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	4/2/2009	
PCBs (mg/kg)	Aroclor 1254	2	2	3	3	2	1	2.26	1.35 J	2.49 J	0.310 J	2.66 J	2.88 J	5.32 J	7.31 J	0.597 J	71.6 J	0.334 J	0.565 J		
	Aroclor 1260	2	2	3	3	2	1	0.056 U	0.291 J	0.217 U	0.0554 U	0.219 U	0.571 U	0.376 U	0.550 U	0.0532 U	3.36 U	0.0535 U	0.355 J		
	Aroclor 1262	2	2	3	3	2	1	0.293	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Total PCBs	2	2	3	3	2	1	2.553	1.641 J	2.49 J	0.310 J	2.66 J	2.88 J	5.32 J	7.31 J	0.597 J	71.6 J	0.334 J	0.920 J		
Metals (mg/kg)	Mercury	20	20	30	30	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Arsenic	20	20	20	20	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Beryllium	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Cadmium	2	2	30	30	2	N/A	NA	0.51	0.47	0.41	0.49	0.29	0.34	NA	0.62	1.24	NA	NA	NA	
	Chromium	30	30	200	200	30	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Lead	300	300	300	300	300	N/A	NA	194	168	79.7	164	31.5	82.9	NA	192	441	NA	NA	NA	
	Nickel	20	20	700	700	20	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Silver	100	100	200	200	100	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Vanadium	600	600	1,000	1,000	600	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:
mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
J - Estimated value; below quantitation limit.
NA - Sample not analyzed for the listed analyte.
N/A - Not applicable.
U - Compound was not detected at specified quantitation limit.
Values in **Bold** indicate the compound was detected.
Values shown in **Bold and shaded type** exceed one or more of the listed MassDEP Method 1 standards or TCLP criteria.
Values shown in **bold and outlined** exceed TSCA but are less than the listed MassDEP Method 1 standards.
PCBs - Polychlorinated Biphenyls.
RC - Reportable Concentration.
TSCA - Toxic Substances Control Act criteria.
(1) - SW-846 Chapter 7, Table 7-1, *Maximum Concentration of Contaminants for Toxicity Characteristic*.
** - for Reference purposes only.

APPENDIX B

Copy of Amendment to PCB Remediation Notification Letter



ENVIRONMENTAL STEWARDSHIP DEPARTMENT/
NEW BEDFORD CONSERVATION COMMISSION

CITY OF NEW BEDFORD
SCOTT W. LANG, MAYOR

TRC Reference Number: 115058

October 21, 2010

Kimberly N. Tisa, PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, Massachusetts 02109-3912

RE: Amendment
Polychlorinated Biphenyl (PCB) Remediation Notification Letter
New Bedford High School Release Abatement Measure Plan
230 Hathaway Boulevard, New Bedford, Massachusetts 02740

Dear Ms. Tisa:

This amendment letter provides clarification to the July 14, 2010 notification to the United States Environmental Protection Agency (EPA) from the City of New Bedford (City), and was prepared following teleconferences with you on July 21, October 6, and October 7, 2010. We trust that the clarification on site history, the discussed verification sampling approach, and the logistical constraints of this removal effort will be satisfactory.

The July 14, 2010 notification described the City's intention to conduct a performance-based disposal action to remove PCB Remediation Waste (soil) at the New Bedford High School (NBHS) property located at 230 Hathaway Boulevard, New Bedford, Massachusetts consistent with 40 CFR Subpart 761.61(b). As indicated in the July 14, 2010 notification, the removal will take place during the performance of a Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) Release Abatement Measure (RAM) to address impacted soils at NBHS in the vicinity of sample point HF-31, which is presently under preparation.

EPA's concurrence on the July 14, 2010 notification and this amendment letter will allow the City to efficiently integrate the planning for this EPA-governed removal action with MCP regulated remedial actions currently in the planning stages and overseen by the City's Licensed Site Professional (LSP) and the Massachusetts Department of Environmental Protection (MassDEP).

Historical Information

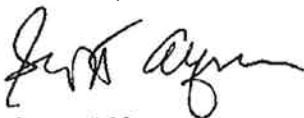
NBHS opened for use in 1972, and initial site construction was completed in 1973. A thorough review of all available information indicates that soils located at NBHS were in place as of 1973. Available information indicates that the soils in the vicinity of HF-31 have remained in place, undisturbed since April 1978 (other than activities conducted with EPA and/or MassDEP acknowledgment and/or oversight such as Immediate Response Actions, soil exploration, and the New McCoy Field force main related Utility Related Abatement Measure, as well as standard grounds keeping activities), and unimpacted by unauthorized PCB uses. Therefore, these soils do not meet the definition of PCB Remediation Waste, as defined in 40 CFR §761.3. Sample location HF-31 was originally sampled as a composite sample (0.5-1 foot and 2.5-3 feet) by the City in December 2004; total PCBs were detected at 2.55 milligrams per kilogram (mg/kg). During recent (April 2009) remedial investigation activities conducted by the City to delineate PCB impacted soils at sample location HF-31 (greater than 1 mg/kg), samples were collected at locations HF-31A, HF-31B, HF-31C, HF-31D, HF-31G, and HF-31H to confirm PCB concentrations, all of which were below 50 mg/kg, except for location HF-31D, where total PCBs were detected at 71.6 mg/kg at 1-3 feet. The City's July 14, 2010 notification summarized soil delineation activities conducted to date in the vicinity of HF-31 with supporting data tables and figures.

Confirmation Sampling

To mitigate potential safety issues (e.g., open excavation) associated with a remedial action conducted at an active school facility, confirmation grab samples will be collected in advance of excavation in-situ at a collection density and sample size (e.g., 3-inch core) in accordance with 40 CFR §761 (Subpart O) to document the boundaries of the greater than 50 mg/kg soil removal. Per your request, to ensure that all soils impacted with PCBs greater than 50 mg/kg have been removed, the pre-determined excavation limits will be over-excavated 6 to 12 inches. If any individual confirmatory sample result is greater than or equal to 50 mg/kg, additional confirmatory samples will be collected to assure that the excavation achieves the desired objective.

If you have any questions concerning the clarification provided in this amendment letter, please do not hesitate to contact me at 508-991-6188.

Sincerely,



Scott Alfonse

Director-Department of Environmental Stewardship

cc. Molly Cote, Massachusetts Department of Environmental Protection (by electronic PDF)
Cheryl Henlin, City of New Bedford (by electronic PDF)
David M. Sullivan, LSP, CHMM, TRC (by electronic PDF)

APPENDIX C

Copy of TSCA Applicability Letter



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE, SUITE 100, BOSTON, MASSACHUSETTS 02109-3912

Certified Mail – Return Receipt Requested

DEC 2 2010

Scott Alfonse, Director
Environmental Stewardship Department
City of New Bedford
133 William Street, Room 304
New Bedford, Massachusetts 02740

Re: New Bedford High School Release Abatement Measure Plan – TSCA Applicability

Dear Mr. Alfonse:

This is written in response to your July 14, 2010 letter and October 21, 2010 amendment regarding the City of New Bedford's plan to conduct a performance-based disposal action to remove *PCB remediation waste* at the New Bedford High School property in accordance with 40 CFR § 761.61(b). Specifically, PCB-contaminated soils with greater than or equal to 50 parts per million (≥ 50 ppm) were identified at sample location HF-31D at 1-3 feet.

These PCB-contaminated soils will be removed and disposed of at either Model City New York or the EQ/Wayne Disposal Landfill in Michigan. The work will be conducted during performance of a Release Abatement Measure (RAM) as set forth in the Massachusetts Contingency Plan and subject to review and oversight by the Massachusetts Department of Environmental Protection (MassDEP). The City has requested EPA's concurrence on the proposed plan.

As the City is proposing to remove and dispose of the PCB-contaminated soils with ≥ 50 ppm in accordance with 40 CFR § 761.61(b), no further EPA approval is required for removal and disposal of these PCB-contaminated soils.

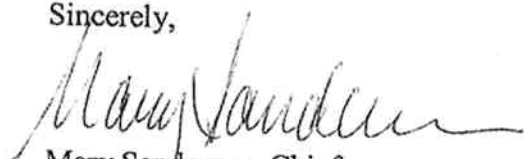
Condition 1 of EPA's *August 31, 2005 Approval for Risk-Based Cleanup and Disposal* required the City to submit a plan to address PCB contamination if PCBs regulated under 40 CFR Part 761 were identified during assessment activities or alternatively, a justification as to why the PCBs were not regulated for cleanup. In your letter you conclude that with the exception of the HF-31D sample location, the PCB-contaminated soils do not meet the definition of a *PCB remediation waste* as defined at 40 CFR § 761.3. You base this determination on the facts that the PCB analytical results for the adjacent PCB-contaminated soils are less than ($<$) 50 ppm and that New Bedford High School was constructed in the early 1970s. You state that all available information indicates that the soils located in the vicinity of HF-31 have not been disturbed since April 1978.

Given the above and based on all the sampling that has been conducted on the New Bedford High School property, it does not appear that the adjacent PCB-contaminated soils with < 50 ppm meet the definition of a *PCB remediation waste*, as defined at 40 CFR § 761.3. As indicated in the July 14, 2010 letter and the RAM, the < 50 ppm PCB-contaminated soils will be managed in accordance with the MCP under the oversight of the MassDEP. However, in the event the City determines that the PCB-contaminated soils with < 50 ppm do meet the definition of a *PCB remediation waste*, the City is required to comply with 40 CFR Part 761.

Please be aware that EPA's determination applies solely to the soils located in/around the HF-31 sample location. This determination has no bearing on the requirements under 40 CFR Part 761 for PCB-contaminated soils located on other portions of the New Bedford High School property or within the Parker Street Waste Site.

Questions regarding this matter should be directly to Kim Tisa at (617) 918-1527.

Sincerely,



Mary Sanderson, Chief
Remediation & Restoration II Branch
Office of Site Remediation & Restoration

cc: D. Sullivan, TRC
 M. Cote, MassDEP
 File

APPENDIX D

Copy of MassDEP Conditional Approval Letter



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

February 4, 2010

Scott Alfonse, Director
Office of Environmental Stewardship
City of New Bedford – City Hall
133 William Street
New Bedford, Massachusetts 02740

RE: **NEW BEDFORD**
Release Tracking Number: 4-15685
Parker Street Waste Site
New Bedford High School
**CONDITIONAL APPROVAL TO CONDUCT A
RELEASE ABATEMENT MEASURE**

Dear Mr. Alfonse:

On November 26, 2010, the Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup (MassDEP), received a Release Abatement Measure Plan (the RAM Plan) related to the Parker Street Waste Site (the Site) submitted in accordance with 310 CMR 40.0000, the Massachusetts Contingency Plan (the MCP). The RAM Plan, dated October 2010 and prepared on behalf of the City of New Bedford (the City) by TRC Companies, Inc. (TRC), details activities related to contaminated soil removal at the New Bedford High School portion of the Site, specifically in the vicinity of sample location HF-31. Activities to be conducted, as described in the RAM Plan, include, but are not limited to: in-situ pre-excavation soil sampling to evaluate excavation limits; excavation of soils regulated as PCB Remediation Waste, pursuant to 40 CFR §761.3; direct loading of this soil into lined roll-off containers to be transported to, and disposed of at, an appropriately licensed facility; excavation of approximately an additional 94 cubic yards of non-PCB Remediation Waste soil to accomplish risk-reduction under the MCP; direct loading of the soil into lined roll-off containers and transportation and to, and disposal at, an appropriately licensed facility. Air monitoring, dust suppression and storm water run-off control measures will be implemented during the entirety of the work, as described in the RAM Plan. Unauthorized access to the work area will be controlled by the installation of a temporary chain-link fence around the work area. Upon completion of the excavation, the area will be backfilled with certified suitable material obtained from off-site sources, topped with approximately 6 inches of loam and seeded or finished with sod. Each of these components of the proposed work is more fully described in the RAM Plan, and further clarification on decontamination procedures, soil management and the extent of the excavation was also provided in a TRC Memorandum dated December 21, 2010.

MassDEP acknowledges that the City posted public notices of the availability of a draft version of the RAM Plan and held a public comment period from October 22, 2010 through November 10,

2010. The City prepared and distributed a summary of written comments received and responses to the comments. This document was distributed electronically on November 22, 2010 and is available for public viewing, along with the RAM Plan and the clarification Memorandum on the City's website at: <http://www.newbedford-ma.gov/McCoy/sitemap/nbhs.html> under the section titled *HF-31 Area Soil Removal*.

Pursuant to 310 CMR 40.0443(2), MassDEP hereby provides conditional approval to the City to implement the RAM as detailed in the above referenced submittals, and in accordance with the conditions described herein.

1. The City, or its contractor, shall provide MassDEP a minimum of seventy-two hours notice prior to commencing field work associated with the RAM Plan. When providing such notice, please provide the name and contact cellular phone number of the person responsible for project management and oversight at the Site;
2. The work proposed in the RAM Plan anticipates off-site disposal of all excavated material. However, Section 5.0 of the RAM Plan and Section 2.1 of Appendix C, the Soil Management Plan identifies the possibility of reusing some of the soils on-Site. In addition, Section 3 of the Soil Management Plan identifies the possibility of stockpiling soils on-Site. As a condition of this approval, no excavated soil should either be reused or stockpiled on the New Bedford High School Campus. Soils should be removed from the NBHS Campus on the same day that they are excavated utilizing lined, covered roll off containers. As allowed by 310 CMR 40.0034(4), and as described in Section 3.2 of the Soil Management Plan, if deemed necessary, soil can be temporary stored at another City-owned secure location provided the following occurs:
 - a) MassDEP is notified of the temporary storage location prior to the transport of the material;
 - b) The roll off containers are lined, prepared for storage at the temporary location and covered in a manner that will ensure that rainwater or other precipitation does not infiltrate the storage container; and,
 - c) The storage area is secured and locked at the end of each work day.
3. Pursuant to 310 CMR 40.0443(3) the RAM activities shall be conducted as described in the RAM Plan, as clarified in the December 2010 Memorandum and as approved herein. Any proposed modifications to the RAM Plan must be submitted in writing to MassDEP for review and approval prior to implementation.

Please be advised that, pursuant to 310 CMR 40.0445(1), a RAM Status Report must be submitted to MassDEP within one hundred and twenty (120) days from the date of MassDEP's receipt of the RAM Plan, and every six (6) months thereafter until a RAM Completion Report, prepared in full accordance with 310 CMR 40.0446 is submitted.

All inquiries regarding this matter should be directed to Molly Cote at the letterhead address or by calling (508) 946-2792. All future communication regarding this matter must reference Release Tracking Number: 4-15685.

Sincerely,



Leonard J. Pinaud, Chief
State & Federal Site Management Section
Bureau of Waste Site Cleanup

P/MC/lg

W:\BWSC\Document Archive\4-0015685.RAM.APWRIT.02-04-2011

ec: MassDEP-SERO-Data Entry

David Johnston, Acting Regional Director

Millie Garcia-Serrano, Deputy Regional Director

Scott W. Lang, Mayor - City of New Bedford

City of New Bedford - Health Department

Eddie Johnson, President – C.L.E.A.N.

Kim Tisa, USEPA Region 1

David Sullivan, LSP - TRC

APPENDIX E

Laboratory Data Packages – Confirmatory Soil Sampling

SAMPLE DATA SUMMARY PACKAGE FOR:

TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

PCB Analysis - SW-846 8082

Date: January 07, 2011-D

LRF: 10120102

Provided by: Northeast Analytical, Inc.
2190 Technology Drive
Schenectady, New York 12308
518-346-4592

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CASE NARRATIVE

January 10, 2011

CASE NARRATIVE

This data package (NEA SDG ID: I0120102) consists of 13 soil samples received on 12/09/2010. The samples are from Project Name: CITY OF NEW BEDFORD-115058.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AN21692	SB-118-1A (0-1')	12/08/2010 13:15
AN21693	SB-118-1A (1-3')	12/08/2010 13:20
AN21694	SB-118-1A (4-5')	12/08/2010 13:25
AN21695	SB-118-1A (8-9')*	12/08/2010 13:30
AN21696	SB-118-1B (0-1')	12/08/2010 13:45
AN21697	SB-118-1B (1-3')	12/08/2010 13:50
AN21698	SB-118-1B (3-4')	12/08/2010 13:55
AN21699	SB-118-1B (6-7')	12/08/2010 14:00
AN21700	SB-118-1B (9-10')*	12/08/2010 14:05
AN21701	HF-31-SSW	12/08/2010 15:15
AN21702	HF-31-WSW	12/08/2010 15:30
AN21703	HF-31-NSW	12/08/2010 15:40
AN21704	HF-31-ESW	12/08/2010 15:55
AN21705	HF-31-ESWD	12/08/2010 16:00
AN21706	HF-31-BW (3FT)	12/08/2010 16:05
AN21707	HF-31-BW (4 FT)*	12/08/2010 16:10
AN21708	HF-31-BW (5 FT)*	12/08/2010 16:15

*Indicates on hold per client request.

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 12/09/2010.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 3.4 degrees Celsius. Please see Chain of Custody for details.

Note: As per the client request Client IDs were changed. Please see chart below:

AN21692	SB-118-1B (0-1')	SB-118-1A (0-1')
AN21693	SB-118-1B (1-3')	SB-118-1A (1-3')
AN21694	SB-118-1B (4-5')	SB-118-1A (4-5')
AN21695	SB-118-1B (8-9') (On hold)	SB-118-1A (8-9') (On hold)
AN21696	SB-118-1A (0-1')	SB-118-1B (0-1')
AN21697	SB-118-1A (1-3')	SB-118-1B (1-3')
AN21698	SB-118-1A (3-4')	SB-118-1B (3-4')
AN21699	SB-118-1A (6-7')	SB-118-1B (6-7')
AN21700	SB-118-1A (9-10') (On hold)	SB-118-1B (9-10') (On hold)

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.

Section A
Required Client Information:
Company: MTC Environmental
Address: 650 Suffolk St
City: Lowell MA 01854
Phone: 978-970-5223
Fax:
Email To: dsullivan@mtcenv.com
Requested Due Date (M/D): 5-Day / 12-18-10

Section B
Required Project Information:
Report To: Deanne Sullivan
Copy To: dsullivan@mtcenv.com
Liz Dery: edery@mtcenv.com
Jeff Saunders: jsaunders@mtcenv.com
Purchase Order No.: 29385
Project Name: City of MTC - Assigned Properties
Project Number: 15058

Section C
Invoice Information:
Attention: See P.O.
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER MR 5-1

Site Location
STATE: MA

Page: 2 of 3
1427937

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see vial codes to left)	# OF CONTAINERS	PRESERVATIVES		Analysis Test #	Requested Analysis Filtered (Y/N)	Temp in °C	Received on	Outdry Sealed Cooler (Y/N)	Samples Inact (Y/N)	
			COMPOSITE START	COMPOSITE END/GRAB				H ₂ SO ₄	HNO ₃							HCl
1	SB-118-15 (0-1)	OW	12/18/10	1315	G	SL-G	1	Unpreserved								HN 21092
2	SB-118-18 (1-3)	WT		1320												AN 21093
3	SB-118-18 (4-5)	WW		1325												AN 21094
4	SB-118-18 (8-9) (On Hold)	P		1330												AN 21095
5	SB-118-14 (0-1)	SL		1345												AN 21090
6	SB-118-14 (1-3)	OL		1350												AN 21097
7	SB-118-14 (3-4)	WP		1555												AN 21098
8	SB-118-14 (6-7)	AR		1402												AN 21099
9	SB-118-14 (9-10) (On Hold)	TS		1408												AN 21000
10	HF-31-55W	OT		1515												AN 21701
11	HF-31-W5W			1530												AN 21702
12	HF-31-NSW		12/18/10	1540	G	SL-G	1									AN 21703

ADDITIONAL COMMENTS: James H. Harty to Fedex
Fedex
Knighthelm Pace
12/18/2010
1700
12/18/2010
10:25

ACCEPTED BY / AFFILIATION: Fedex
DATE: 12/18/2010
TIME: 1700

RELINQUISHED BY / AFFILIATION: James H. Harty to Fedex
DATE: 12/18/2010
TIME: 1700

RELINQUISHED BY / AFFILIATION: Fedex
DATE: 12/18/2010
TIME: 10:25

Temp in °C: 3.4
Received on: Y
Outdry Sealed Cooler (Y/N): Y
Samples Inact (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jim Grundy
SIGNATURE of SAMPLER: James A Grundy
DATE SIGNED (MM/DD/YYYY): 12/18/2010

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET-30 day payment terms and conditions in full. Payment of 50% net monthly fee is required for all services not included in the standard fee schedule.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed. <10120102P2>

Section A
Required Client Information:

Company: **TRC Environmental**
Address: **630 S. Ash St., Lowell, MA 01854**
Phone: **978-970-5200** Fax:
Email To: **Asullivan@trcsolutions.com**

Section B
Required Project Information:

Request To: **Dave Sullivan; dsullivan@trcsolutions.com**
Copy To: **Liz Dwyer; ldwyer@trcsolutions.com**
Jeff Sawadlos; jsawadlos@trcsolutions.com
Purchase Order No: **29385**
Project Name: **City of MB - Acquired Properties**
Project Number: **19058**

Section C
Invoicing Information:

Attention: **See P.O.**
Company Name:
Address:
Pace Project Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER **MCP S-1**

Site Location: **MA**
STATE:

Page: **3** of **3**
1427932



ITEM #	Section D Required Client Information		MATRIX CODE (see table codes on back)	COLLECTED		# OF CONTAINERS	PRESERVATIVES		Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
	SAMPLE ID (A-Z, 0-9 / - /) Sample IDs MUST BE UNIQUE	MATRIX CODE		DATE	TIME		DATE	TIME					Unpreserved
1	HF-31-ESW	DW	SLG	12/15/10	1855	1	X		X		M	AN21704	
2	HF-31-ESWD	WT		1/6/11	1600	1						AN21705	
3	HF-31-BW (3 ft)	WP		1/6/11	1605	1						AN21700	
4	HF-31-BW (4 ft)	WP		1/6/11	1612	1						AN21707	
5	HF-31-BW (5 ft)	WP		1/6/11	1615	1						AN21708	
6													
7													
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	James Dwyer TRC Environmental	12/15/10	1700	FedEx	12/19/10	1006	54 Y Y Y
	FedEx			Unauthenticated			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Jim Grunsky**
SIGNATURE of SAMPLER: *James D. Grunsky*

DATE Signed (MM/DD/YYYY): **12/08/2010**

Temp In °C

Received on (Y/N)

Custody Sealed (Y/N)

Samples In/out (Y/N)

ORIGINAL

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Batch ID: 12736

Prep Date: 12/09/10

Initial for required Clean Up Steps

Prep ID	NEA Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	CAP		CAP		Date Hg Shake (MM/DD)	Date Final Ext. Vol (mL)	Date Conc (MM/DD)	Comments
													Date TBA Cleaned (MM/DD)	Date Acid Cleaned (MM/DD)	Date Florisil/ Shake (MM/DD)	Date Hg Shake (MM/DD)				
1	124691	PBLK-95	AN21692B	Soil	E PCB S	SOX	N/A	10.228	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
2	124690	LCS-95	AN21692L	Soil	E PCB S	SOX	N/A	10.081	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
3	124677	10120102-01	AN21692	Soil	E PCB S	SOX	83.2	10.112	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
4	124678	10120102-02	AN21693	Soil	E PCB S	SOX	70.1	10.020	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
5	124679	10120102-03	AN21694	Soil	E PCB S	SOX	86.4	10.202	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
6	124680	10120102-05	AN21696	Soil	E PCB S	SOX	83.0	10.461	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
7	124681	10120102-06	AN21697	Soil	E PCB S	SOX	77.3	10.162	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
8	124682	10120102-07	AN21698	Soil	E PCB S	SOX	85.9	10.330	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
9	124683	10120102-08	AN21699	Soil	E PCB S	SOX	90.7	10.031	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
10	124694	10120102-10	AN21701	Soil	E PCB S	SOX	92.9	10.227	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
11	124695	10120102-11	AN21702	Soil	E PCB S	SOX	93.3	10.259	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
12	124696	10120102-12	AN21703	Soil	E PCB S	SOX	91.5	10.268	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
13	124687	10120102-13	AN21704	Soil	E PCB S	SOX	91.6	10.182	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
14	124688	10120102-14	AN21705	Soil	E PCB S	SOX	91.7	10.068	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			
15	124689	10120102-15	AN21706	Soil	E PCB S	SOX	87.7	10.245	16:45	08:45	NA	NA	12/10	12/10	NA	25	12/10			

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Main Lab)	E49039	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Acetone (Dewar) current	DC680	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.5ppm TCMX/5.0ppm DCBP in hexane	110910829P133A1-10	500	0.5/5.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexane (Dewar)	DC685A	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aroclor 1242 @ 12.5 PPM SPIKE	112210829P140A	1000	12.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10% Florisil main lab	113010MLB2P40B	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBA Solution	120210MLB2P42A	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Analyst Review:

Craig Petrus

Craig Petrus

Peer Review:

Carrie Barss

Carrie Barss

PCB SCREEN SHEET

LRF: 10120102

Batch ID:12736

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AN21692B	GC21B-1302-16	Soil	12/09/10	10.228	N/A	10.228	25	25	0.015466	1	NA	25x	Jared Acker
	GC21F-1369-16	Soil	12/09/10	10.228	N/A	10.228	25	25	0.015466	1	NA	25x	Jared Acker
AN21692L	GC21B-1302-17	Soil	12/09/10	10.091	N/A	10.091	25	25	0.55864	1	NA	25x	Jared Acker
	GC21F-1369-17	Soil	12/09/10	10.091	N/A	10.091	25	25	0.55864	1	NA	25x	Jared Acker
AN21692RR1	GC21F-1370-4	Soil	12/09/10	10.112	83.2	8.4132	25	250	0.10285	2	2>4	50x	Jared Acker
	GC21B-1303-4	Soil	12/09/10	10.112	83.2	8.4132	25	250	0.10285	2	2>4	50x	Jared Acker
AN21693	GC21B-1302-18	Soil	12/09/10	10.020	70.1	7.0240	25	250	0.42014	10	1>10	250x	Jared Acker
	GC21F-1369-18	Soil	12/09/10	10.020	70.1	7.0240	25	250	0.42014	10	1>10	250x	Jared Acker
AN21694	GC21B-1302-20	Soil	12/09/10	10.202	86.4	8.6145	25	260	0.0079596	1	NA	25x	Jared Acker
	GC21F-1369-20	Soil	12/09/10	10.202	86.4	8.6145	25	250	0.0079596	1	NA	25x	Jared Acker
AN21696	GC21B-1302-21	Soil	12/09/10	10.481	83.0	8.6826	25	250	0.063033	1	NA	25x	Jared Acker
	GC21F-1369-21	Soil	12/09/10	10.481	83.0	8.6826	25	250	0.063033	1	NA	25x	Jared Acker
AN21697	GC21B-1302-22	Soil	12/09/10	10.162	77.3	7.9552	25	250	0.30748	6	1>6	150x	Jared Acker
	GC21F-1369-22	Soil	12/09/10	10.162	77.3	7.9552	25	250	0.30748	6	1>6	150x	Jared Acker
AN21698	GC21B-1302-23	Soil	12/09/10	10.330	65.9	6.8075	25	250	0.37150	7	1>7	175x	Jared Acker
	GC21F-1369-23	Soil	12/09/10	10.330	65.9	6.8075	25	250	0.37150	7	1>7	175x	Jared Acker
AN21699	GC21B-1302-24	Soil	12/09/10	10.031	90.7	9.0981	25	250	0.015125	1	NA	25x	Jared Acker
	GC21F-1369-24	Soil	12/09/10	10.031	90.7	9.0981	25	250	0.015125	1	NA	25x	Jared Acker
AN21701RR1	GC21B-1303-5	Soil	12/09/10	10.227	92.9	9.5009	25	250	0.021809	1	NA	25x	Jared Acker
	GC21F-1370-5	Soil	12/09/10	10.227	92.9	9.5009	25	250	0.021809	1	NA	25x	Jared Acker
AN21702RR1	GC21B-1303-6	Soil	12/09/10	10.258	93.3	9.5707	25	250	0.064557	1	NA	25x	Jared Acker
	GC21F-1370-6	Soil	12/09/10	10.258	93.3	9.5707	25	250	0.064557	1	NA	25x	Jared Acker
AN21703RR1	GC21B-1303-7	Soil	12/09/10	10.268	91.5	9.3952	25	260	0.022425	1	NA	25x	Jared Acker
	GC21F-1370-7	Soil	12/09/10	10.268	91.5	9.3952	25	250	0.022425	1	NA	25x	Jared Acker
AN21704RR1	GC21B-1303-8	Soil	12/09/10	10.182	91.6	9.3267	25	250	0.031119	1	NA	25x	Jared Acker
	GC21F-1370-8	Soil	12/09/10	10.182	91.6	9.3267	25	250	0.031119	1	NA	25x	Jared Acker
AN21705RR1	GC21B-1303-9	Soil	12/09/10	10.068	91.7	9.2324	25	250	0.023350	1	NA	25x	Jared Acker
	GC21F-1370-9	Soil	12/09/10	10.068	91.7	9.2324	25	250	0.023350	1	NA	25x	Jared Acker
AN21706RR1	GC21B-1303-10	Soil	12/09/10	10.245	87.7	8.9849	25	250	0.10774	2	2>4	50x	Jared Acker
	GC21F-1370-10	Soil	12/09/10	10.245	87.7	8.9849	25	250	0.10774	2	2>4	50x	Jared Acker

COMMENTS:

SURROGATE % RECOVERY SUMMARY

**2F-1
PCB SURROGATE RECOVERY**

Laboratory Name: NEA - A Division of PACE

SDG: 10120102

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-95	AN21692B	GC21F-1369-16	99.1	101					0
PBLK-95	AN21692B	GC21B-1302-16			99.4	104			0
LCS-95	AN21692L	GC21F-1369-17	100	100					0
LCS-95	AN21692L	GC21B-1302-17			101	104			0
10120102-01RR1	AN21692RR1	GC21F-1370-4	102	77.6					0
10120102-01RR1	AN21692RR1	GC21B-1303-4			105	84.3			0
10120102-02	AN21693	GC21F-1369-19	90.5 D	128 D					0
10120102-02	AN21693	GC21B-1302-19			95.0 D	114 D			0
10120102-03	AN21694	GC21F-1369-20	98.0	94.6					0
10120102-03	AN21694	GC21B-1302-20			98.3	96.1			0
10120102-05	AN21698	GC21F-1369-21	105	52.5 *					1
10120102-05	AN21696	GC21B-1302-21			102	83.9			0
10120102-06	AN21697	GC21F-1369-22	91.7 D	114 D					0
10120102-06	AN21697	GC21B-1302-22			74.9 D	101 D			0
10120102-07	AN21698	GC21F-1369-23	85.9 D	113 D					0
10120102-07	AN21698	GC21B-1302-23			80.9 D	94.6 D			0
10120102-08	AN21699	GC21F-1369-24	105	104					0
10120102-08	AN21699	GC21B-1302-24			101	99.2			0
10120102-10RR1	AN21701RR1	GC21F-1370-5	101	92.6					0
10120102-10RR1	AN21701RR1	GC21B-1303-5			105	97.8			0
10120102-11RR1	AN21702RR1	GC21F-1370-6	99.1	88.6					0
10120102-11RR1	AN21702RR1	GC21B-1303-6			104	97.1			0
10120102-12RR1	AN21703RR1	GC21F-1370-7	102	107					0
10120102-12RR1	AN21703RR1	GC21B-1303-7			98.3	104			0
10120102-13RR1	AN21704RR1	GC21F-1370-8	103	104					0
10120102-13RR1	AN21704RR1	GC21B-1303-8			104	104			0
10120102-14RR1	AN21705RR1	GC21F-1370-9	103	104					0
10120102-14RR1	AN21705RR1	GC21B-1303-9			95.9	99.7			0

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)

SURR2 = DECACHLOROBIPHENYL (60.0-140)

2F-1
PCB SURROGATE RECOVERY

Laboratory Name: NEA - A Division of PACE

SDG: 10120102

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
10120102-15RR1	AN21706RR1	GC21F-1370-10	103	111					0
10120102-15RR1	AN21706RR1	GC21B-1303-10			102	111			0

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)

SURR2 = DECACHLOROBIPHENYL (60.0-140)

LABORATORY CONTROL SPIKE SUMMARY

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 10120102

LCS ID: LCS-95

Blank Sample ID: PBLK-95

LCS File ID: GC21F-1369-17

Method Blank File ID: GC21F-1369-16

LCS Inj Date: 12/11/2010 01:05:36

Method Blank Inj Date: 12/11/2010 00:33:04

LCS NEA ID No: AN21692L

Method Blank NEA ID No: AN21692B

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	1.24	1.32	106	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: _____

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 10120102

LCS ID: LCS-95

Blank Sample ID: PBLK-95

LCS File ID: GC21B-1302-17

Method Blank File ID: GC21B-1302-18

LCS Inj Date: 12/11/2010 01:05:41

Method Blank Inj Date: 12/11/2010 00:33:08

LCS NEA ID No: AN21692L

Method Blank NEA ID No: AN21692B

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS PERCENT RECOVERY
Aroclor 1242	1.24	1.30	105	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

COMMENTS:

METHOD BLANK SUMMARY

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-95</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AN21692B</u>
Instrument ID: <u>GC21F</u>	Lab File ID: <u>GC21F-1369-16</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>12/09/2010</u>
GC Column (1): <u>Phenomenex, Zorbax ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>12/11/2010</u>
	Time Analyzed: <u>00:33:04</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-95(LAB CONTROL SPIKE)	AN21692L	GC21F-1369-17	12/11/2010 01:05:36
SB-118-1A (1-3')	AN21693	GC21F-1369-19	12/11/2010 02:10:40
SB-118-1A (4-5')	AN21694	GC21F-1369-20	12/11/2010 02:43:12
SB-118-1B (0-1')	AN21696	GC21F-1369-21	12/11/2010 03:15:43
SB-118-1B (1-3')	AN21697	GC21F-1369-22	12/11/2010 03:48:15
SB-118-1B (3-4')	AN21698	GC21F-1369-23	12/11/2010 04:20:47
SB-118-1B (6-7')	AN21699	GC21F-1369-24	12/11/2010 04:53:18
SB-118-1A (0-1')	AN21692RR1	GC21F-1370-4	12/11/2010 13:56:41
HF-31-SSW	AN21701RR1	GC21F-1370-5	12/11/2010 14:29:13
HF-31-WSW	AN21702RR1	GC21F-1370-6	12/11/2010 15:01:45
HF-31-NSW	AN21703RR1	GC21F-1370-7	12/11/2010 15:34:17
HF-31-ESW	AN21704RR1	GC21F-1370-8	12/11/2010 16:06:49
HF-31-ESWD	AN21705RR1	GC21F-1370-9	12/11/2010 16:39:21
HF-31-BW (3FT)	AN21706RR1	GC21F-1370-10	12/11/2010 17:11:52

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-95</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AN21692B</u>
Instrument ID: <u>GC21B</u>	Lab File ID: <u>GC21B-1302-16</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>12/09/2010</u>
GC Column (1): <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>12/11/2010</u>
	Time Analyzed: <u>00:33:08</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-95(LAB CONTROL SPIKE)	AN21692L	GC21B-1302-17	12/11/2010 01:05:41
SB-118-1A (1-3')	AN21693	GC21B-1302-19	12/11/2010 02:10:44
SB-118-1A (4-5')	AN21694	GC21B-1302-20	12/11/2010 02:43:16
SB-118-1B (0-1')	AN21696	GC21B-1302-21	12/11/2010 03:15:47
SB-118-1B (1-3')	AN21697	GC21B-1302-22	12/11/2010 03:48:19
SB-118-1B (3-4')	AN21698	GC21B-1302-23	12/11/2010 04:20:51
SB-118-1B (6-7')	AN21699	GC21B-1302-24	12/11/2010 04:53:22
SB-118-1A (0-1')	AN21692RR1	GC21B-1303-4	12/11/2010 13:56:45
HF-31-SSW	AN21701RR1	GC21B-1303-5	12/11/2010 14:29:17
HF-31-WSW	AN21702RR1	GC21B-1303-6	12/11/2010 15:01:49
HF-31-NSW	AN21703RR1	GC21B-1303-7	12/11/2010 15:34:21
HF-31-ESW	AN21704RR1	GC21B-1303-8	12/11/2010 16:06:53
HF-31-ESWD	AN21705RR1	GC21B-1303-9	12/11/2010 16:39:25
HF-31-BW (3FT)	AN21706RR1	GC21B-1303-10	12/11/2010 17:11:56

SAMPLE ANALYSIS DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>10120102</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>10120102-10RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>HF-31-SSW</u>
Sample wt(Dry)/vol:	<u>9.5009 g</u>	Lab Sample ID:	<u>AN21701RR1</u>
Percent Moisture:	<u>7.10</u>	Date Received:	<u>12/09/2010</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>12/09/2010</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>12/11/2010</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC21B-1303-5

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC21F-1370-5

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	Q
			UG/G	
1	12674-11-2	Aroclor 1016	0.0526	U
1	11104-28-2	Aroclor 1221	0.0526	U
1	11141-16-5	Aroclor 1232	0.0526	U
1	53469-21-9	Aroclor 1242	0.0526	U
1	12672-29-6	Aroclor 1248	0.0526	U
1	11097-69-1	Aroclor 1254	0.584	AF
2	11096-82-5	Aroclor 1260	0.146	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 10120102-10RR1
 Instrument 1 ID: GC21B
 Date Analyzed: 12/11/2010 2:29:17 PM
 GC Column 1: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC21B-1303-5
 Matrix: Soil

SDG No: 10120102
 Client ID: HF-31-SSW
 Lab Sample ID: AN21701RR1
 Instrument 2 ID: GC21F
 Date Analyzed: 12/11/2010 2:29:13 PM
 GC Column 2: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC21F-1370-5

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1221	1	1	NA	5.27	5.43			
		2	NA	6.42	6.58			
		3	NA	6.90	7.06			
		4	NA	7.11	7.27			
		5	NA	7.23	7.39			
	2	1	NA	4.44	4.60			
		2	NA	5.68	5.84			
		3	NA	6.23	6.39			
		4	NA	6.43	6.59			
		5	NA	6.55	6.71			
Aroclor 1232	1	1	NA	7.23	7.39			
		2	NA	8.49	8.65			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	6.55	6.71			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1242	1	1	NA	8.08	8.24			
		2	NA	8.50	8.66			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			

Relative Percent Difference Limit = 40.0%

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>HF-31-SSW</u>
LRF Sample ID: <u>10120102-10RR1</u>	Lab Sample ID: <u>AN21701RR1</u>
Instrument 1 ID: <u>GC21B</u>	Instrument 2 ID: <u>GC21F</u>
Date Analyzed: <u>12/11/2010 2:29:17 PM</u>	Date Analyzed: <u>12/11/2010 2:29:13 PM</u>
GC Column 1: <u>Phenomenex, Zobron ZB-S, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zobron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21B-1303-5</u>	Lab File ID 2: <u>GC21F-1370-5</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.12	10.04	10.20			
		2	10.86	10.77	10.93			
		3	11.46	11.38	11.54			
		4	11.69	11.59	11.75			
		5	12.16	12.06	12.22			
	2	1	9.43	9.36	9.52			
		2	10.08	10.01	10.17			
		3	NA	10.64	10.80			
		4	10.90	10.80	10.96			
		5	11.27	11.20	11.36			
Aroclor 1254	1	1	12.32	12.24	12.40			
		2	13.10	13.01	13.17			
		3	13.39	13.31	13.47			
		4	14.87	14.78	14.94			
		5	15.74	15.65	15.81	0.584		
	2	1	11.57	11.51	11.67			
		2	12.22	12.16	12.32			
		3	12.50	12.44	12.60			
		4	13.97	13.91	14.07			
		5	14.77	14.72	14.88	0.522	11.2	
Aroclor 1260	1	1	15.74	15.65	15.81			
		2	18.02	17.93	18.09			
		3	19.21	19.12	19.28			
		4	19.84	19.76	19.92			
		5	22.51	22.41	22.57	0.129		
	2	1	14.77	14.72	14.88			
		2	16.98	16.93	17.09			
		3	17.84	17.79	17.95			
		4	18.57	18.53	18.69			
		5	20.69	20.66	20.82	0.146	12.4	

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>10120102-11RR1</u>
Matrix: <u>Soil</u>	Client ID: <u>HF-31-WSW</u>
Sample wt(Dry)/vol: <u>9.5707 g</u>	Lab Sample ID: <u>AN21702RR1</u>
Percent Moisture: <u>6.70</u>	Date Received: <u>12/09/2010</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>12/09/2010</u>
Conc. Extract Volume: <u>25000 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>1</u>
	Sulfur Cleanup: <u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC21B-1303-6

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC21F-1370-6

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
1	12674-11-2	Aroclor 1016	0.0522	U
1	11104-28-2	Aroclor 1221	0.0522	U
1	11141-16-5	Aroclor 1232	0.0522	U
1	53469-21-9	Aroclor 1242	0.0522	U
1	12672-29-6	Aroclor 1248	0.0522	U
1	11097-69-1	Aroclor 1254	1.29	AF
1	11096-82-5	Aroclor 1260	0.692	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>HF-31-WSW</u>
LRF Sample ID: <u>10120102-11RR1</u>	Lab Sample ID: <u>AN21702RR1</u>
Instrument 1 ID: <u>GC21B</u>	Instrument 2 ID: <u>GC21F</u>
Date Analyzed: <u>12/11/2010 3:01:49 PM</u>	Date Analyzed: <u>12/11/2010 3:01:45 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21B-1303-6</u>	Lab File ID 2: <u>GC21F-1370-6</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1221	1	1	NA	5.27	5.43			
		2	NA	6.42	6.58			
		3	NA	6.90	7.06			
		4	NA	7.11	7.27			
		5	NA	7.23	7.39			
	2	1	NA	4.44	4.60			
		2	NA	5.68	5.84			
		3	NA	6.23	6.39			
		4	NA	6.43	6.59			
		5	NA	6.55	6.71			
Aroclor 1232	1	1	NA	7.23	7.39			
		2	NA	8.49	8.65			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	6.55	6.71			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1242	1	1	NA	8.08	8.24			
		2	NA	8.50	8.66			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			

Relative Percent Difference Limit = 40.0%

10-B

PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	10120102
ELAP ID No:	11078	Client ID:	HF-31-WSW
LRF Sample ID:	10120102-11RR1	Lab Sample ID:	AN21702RR1
Instrument 1 ID:	GC21B	Instrument 2 ID:	GC21F
Date Analyzed:	12/11/2010 3:01:49 PM	Date Analyzed:	12/11/2010 3:01:45 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21B-1303-6	Lab File ID 2:	GC21F-1370-6
Matrix:	Soil		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.12	10.04	10.20			
		2	10.85	10.77	10.93			
		3	11.47	11.38	11.54			
		4	11.69	11.59	11.75			
		5	12.17	12.06	12.22			
	2	1	9.44	9.36	9.52			
		2	10.07	10.01	10.17			
		3	10.71	10.64	10.80			
		4	10.91	10.80	10.96			
		5	11.29	11.20	11.36			
Aroclor 1254	1	1	12.33	12.24	12.40			
		2	13.10	13.01	13.17			
		3	13.40	13.31	13.47			
		4	14.87	14.78	14.94			
		5	15.74	15.65	15.81	1.29		
	2	1	11.58	11.51	11.67			
		2	12.23	12.16	12.32			
		3	12.51	12.44	12.60			
		4	13.97	13.91	14.07			
		5	14.78	14.72	14.88	0.952	30.2	
Aroclor 1260	1	1	15.74	15.65	15.81			
		2	18.02	17.93	18.09			
		3	19.21	19.12	19.28			
		4	19.86	19.76	19.92			
		5	22.50	22.41	22.57	0.692		
	2	1	14.78	14.72	14.88			
		2	16.99	16.93	17.09			
		3	17.85	17.79	17.95			
		4	18.58	18.53	18.69			
		5	20.70	20.66	20.82	0.682	1.46	

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>10120102-12RR1</u>
Matrix: <u>Soil</u>	Client ID: <u>HF-31-NSW</u>
Sample wt(Dry)/vol: <u>9.3952 g</u>	Lab Sample ID: <u>AN21703RR1</u>
Percent Moisture: <u>8.50</u>	Date Received: <u>12/09/2010</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>12/09/2010</u>
Conc. Extract Volume: <u>25000 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 6082 (PCB)</u>	Dilution Factor: <u>1</u>
	Sulfur Cleanup: <u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1303-7

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1370-7

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
1	12674-11-2	Aroclor 1016	0.0532	U
1	11104-28-2	Aroclor 1221	0.0532	U
1	11141-16-5	Aroclor 1232	0.0532	U
1	53469-21-9	Aroclor 1242	0.0532	U
1	12672-29-6	Aroclor 1248	0.0532	U
1	11097-69-1	Aroclor 1254	0.461	AF
2	11096-82-5	Aroclor 1260	0.145	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 10120102-12RR1
 Instrument 1 ID: GC21B
 Date Analyzed: 12/11/2010 3:34:21 PM
 GC Column 1: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC21B-1303-7
 Matrix: Soil

SDG No: 10120102
 Client ID: HF-31-NSW
 Lab Sample ID: AN21703RR1
 Instrument 2 ID: GC21F
 Date Analyzed: 12/11/2010 3:34:17 PM
 GC Column 2: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC21F-1370-7

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1221	1	1	NA	5.27	5.43			
		2	NA	6.42	6.58			
		3	NA	6.90	7.06			
		4	NA	7.11	7.27			
		5	NA	7.23	7.39			
	2	1	NA	4.44	4.60			
		2	NA	5.68	5.84			
		3	NA	6.23	6.39			
		4	NA	6.43	6.59			
		5	NA	6.55	6.71			
Aroclor 1232	1	1	NA	7.23	7.39			
		2	NA	8.49	8.65			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	6.55	6.71			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1242	1	1	NA	8.08	8.24			
		2	NA	8.50	8.66			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			

Relative Percent Difference Limit = 40.0%

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>HF-31-NSW</u>
LRF Sample ID: <u>10120102-12RR1</u>	Lab Sample ID: <u>AN21703RR1</u>
Instrument 1 ID: <u>GC21B</u>	Instrument 2 ID: <u>GC21F</u>
Date Analyzed: <u>12/11/2010 3:34:21 PM</u>	Date Analyzed: <u>12/11/2010 3:34:17 PM</u>
GC Column 1: <u>Phenomenex, Zorbex ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zorbex ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21B-1303-7</u>	Lab File ID 2: <u>GC21F-1370-7</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.13	10.04	10.20			
		2	10.85	10.77	10.93			
		3	11.45	11.38	11.54			
		4	11.69	11.59	11.75			
		5	12.16	12.06	12.22			
	2	1	9.44	9.36	9.52			
		2	10.08	10.01	10.17			
		3	10.71	10.64	10.80			
		4	10.90	10.80	10.96			
		5	11.28	11.20	11.36			
Aroclor 1254	1	1	12.33	12.24	12.40			
		2	13.10	13.01	13.17			
		3	13.39	13.31	13.47			
		4	14.87	14.78	14.94			
		5	15.74	15.65	15.81	0.461		
	2	1	11.57	11.51	11.67			
		2	12.22	12.16	12.32			
		3	12.50	12.44	12.60			
		4	13.97	13.91	14.07			
		5	14.77	14.72	14.88	0.441	4.43	
Aroclor 1260	1	1	15.74	15.65	15.81			
		2	18.02	17.93	18.09			
		3	19.20	19.12	19.28			
		4	19.85	19.76	19.92			
		5	22.50	22.41	22.57	0.132		
	2	1	14.77	14.72	14.88			
		2	16.98	16.93	17.09			
		3	17.84	17.79	17.95			
		4	18.58	18.53	18.69			
		5	20.68	20.66	20.82	0.145	9.39	

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>10120102-13RR1</u>
Matrix: <u>Soil</u>	Client ID: <u>HF-31-ESW</u>
Sample wt(Dry)/vol: <u>9.3267 g</u>	Lab Sample ID: <u>AN21704RR1</u>
Percent Moisture: <u>8.40</u>	Date Received: <u>12/09/2010</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>12/09/2010</u>
Conc. Extract Volume: <u>25000 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 6082 (PCB)</u>	Dilution Factor: <u>1</u>
	Sulfur Cleanup: <u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1303-8

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1370-8

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
1	12674-11-2	Aroclor 1016	0.0536	U
1	11104-28-2	Aroclor 1221	0.0536	U
1	11141-16-5	Aroclor 1232	0.0536	U
1	53469-21-9	Aroclor 1242	0.0536	U
1	12672-29-6	Aroclor 1248	0.0536	U
1	11097-69-1	Aroclor 1254	0.594	AF
2	11096-82-5	Aroclor 1260	0.109	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>HF-31-ESW</u>
LRF Sample ID: <u>10120102-13RR1</u>	Lab Sample ID: <u>AN21704RR1</u>
Instrument 1 ID: <u>GC21B</u>	Instrument 2 ID: <u>GC21F</u>
Date Analyzed: <u>12/11/2010 4:06:53 PM</u>	Date Analyzed: <u>12/11/2010 4:06:49 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21B-1303-8</u>	Lab File ID 2: <u>GC21F-1370-8</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1221	1	1	NA	5.27	5.43			
		2	NA	6.42	6.58			
		3	NA	6.90	7.06			
		4	NA	7.11	7.27			
		5	NA	7.23	7.39			
	2	1	NA	4.44	4.60			
		2	NA	5.68	5.84			
		3	NA	6.23	6.39			
		4	NA	6.43	6.59			
		5	NA	6.55	6.71			
Aroclor 1232	1	1	NA	7.23	7.39			
		2	NA	8.49	8.65			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	6.55	6.71			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1242	1	1	NA	8.08	8.24			
		2	NA	8.50	8.66			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			

Relative Percent Difference Limit = 40.0%

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 10120102-13RR1
 Instrument 1 ID: GC21B
 Date Analyzed: 12/11/2010 4:06:53 PM
 GC Column 1: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC21B-1303-8
 Matrix: Soil

SDG No: 10120102
 Client ID: HF-31-ESW
 Lab Sample ID: AN21704RR1
 Instrument 2 ID: GC21F
 Date Analyzed: 12/11/2010 4:06:49 PM
 GC Column 2: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC21F-1370-8

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.12	10.04	10.20			
		2	10.86	10.77	10.93			
		3	11.47	11.38	11.54			
		4	11.69	11.59	11.75			
		5	12.17	12.06	12.22			
	2	1	9.43	9.36	9.52			
		2	10.07	10.01	10.17			
		3	10.72	10.64	10.80			
		4	10.91	10.80	10.96			
		5	11.27	11.20	11.36			
Aroclor 1254	1	1	12.33	12.24	12.40			
		2	13.10	13.01	13.17			
		3	13.40	13.31	13.47			
		4	14.87	14.78	14.94			
		5	15.74	15.65	15.81	0.594		
	2	1	11.58	11.51	11.67			
		2	12.23	12.16	12.32			
		3	12.50	12.44	12.60			
		4	13.97	13.91	14.07			
		5	14.78	14.72	14.88	0.550	7.69	
Aroclor 1260	1	1	15.74	15.65	15.81			
		2	18.02	17.93	18.09			
		3	19.21	19.12	19.28			
		4	19.86	19.76	19.92			
		5	22.51	22.41	22.57	0.106		
	2	1	14.78	14.72	14.88			
		2	16.99	16.93	17.09			
		3	17.84	17.79	17.95			
		4	18.58	18.53	18.69			
		5	20.70	20.66	20.82	0.109	2.79	

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>10120102</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>10120102-14RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>HF-31-ESWO</u>
Sample wt(Dry)/vol:	<u>9.2324 g</u>	Lab Sample ID:	<u>AN21705RR1</u>
Percent Moisture:	<u>8.30</u>	Date Received:	<u>12/09/2010</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>12/09/2010</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>12/11/2010</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1303-9

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1370-9

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	Q
			UG/G	
1	12674-11-2	Aroclor 1016	0.0542	U
1	11104-28-2	Aroclor 1221	0.0542	U
1	11141-16-5	Aroclor 1232	0.0542	U
1	53469-21-9	Aroclor 1242	0.0542	U
1	12672-29-6	Aroclor 1248	0.0542	U
1	11097-69-1	Aroclor 1254	0.587	AF
2	11096-82-5	Aroclor 1260	0.132	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 10120102-14RR1
 Instrument 1 ID: GC21B
 Date Analyzed: 12/11/2010 4:39:25 PM
 GC Column 1: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC21B-1303-9
 Matrix: Soil

SDG No: 10120102
 Client ID: HF-31-ESWD
 Lab Sample ID: AN21705RR1
 Instrument 2 ID: GC21F
 Date Analyzed: 12/11/2010 4:39:21 PM
 GC Column 2: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC21F-1370-9

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1221	1	1	NA	5.27	5.43			
		2	NA	6.42	6.58			
		3	NA	6.90	7.06			
		4	NA	7.11	7.27			
		5	NA	7.23	7.39			
	2	1	NA	4.44	4.60			
		2	NA	5.68	5.84			
		3	NA	6.23	6.39			
		4	NA	6.43	6.59			
		5	NA	6.55	6.71			
Aroclor 1232	1	1	NA	7.23	7.39			
		2	NA	8.49	8.65			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	6.55	6.71			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1242	1	1	NA	8.08	8.24			
		2	NA	8.50	8.66			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>HF-31-ESWD</u>
LRF Sample ID: <u>10120102-14RR1</u>	Lab Sample ID: <u>AN21705RR1</u>
Instrument 1 ID: <u>GC21B</u>	Instrument 2 ID: <u>GC21F</u>
Date Analyzed: <u>12/11/2010 4:39:25 PM</u>	Date Analyzed: <u>12/11/2010 4:39:21 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21B-1303-9</u>	Lab File ID 2: <u>GC21F-1370-9</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.12	10.04	10.20			
		2	10.86	10.77	10.93			
		3	11.46	11.38	11.54			
		4	11.69	11.59	11.75			
		5	12.17	12.06	12.22			
	2	1	9.44	9.36	9.52			
		2	10.07	10.01	10.17			
		3	NA	10.64	10.80			
		4	10.91	10.80	10.96			
		5	11.26	11.20	11.36			
Aroclor 1254	1	1	12.33	12.24	12.40			
		2	13.10	13.01	13.17			
		3	13.39	13.31	13.47			
		4	14.87	14.78	14.94			
		5	15.74	15.65	15.81	0.587		
	2	1	11.58	11.51	11.67			
		2	12.23	12.16	12.32			
		3	12.50	12.44	12.60			
		4	13.97	13.91	14.07			
		5	14.78	14.72	14.88	0.573	2.41	
Aroclor 1260	1	1	15.74	15.65	15.81			
		2	18.02	17.93	18.09			
		3	19.21	19.12	19.28			
		4	19.85	19.76	19.92			
		5	22.50	22.41	22.57	0.111		
	2	1	14.78	14.72	14.88			
		2	16.99	16.93	17.09			
		3	17.84	17.79	17.95			
		4	18.59	18.53	18.69			
		5	20.70	20.66	20.82	0.132	17.3	

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>10120102-15RR1</u>
Matrix: <u>Soil</u>	Client ID: <u>HF-31-BW (3FT)</u>
Sample wt(Dry)/vol: <u>8.9849 g</u>	Lab Sample ID: <u>AN21706RR1</u>
Percent Moisture: <u>12.3</u>	Date Received: <u>12/09/2010</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>12/09/2010</u>
Conc. Extract Volume: <u>25000 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>2</u>
	Sulfur Cleanup: <u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zorbax ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1303-10

Column 2 Information:

GC Column: Phenomenex, Zorbax ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1370-10

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
1	12674-11-2	Aroclor 1016	0.111	U
1	11104-28-2	Aroclor 1221	0.111	U
1	11141-16-5	Aroclor 1232	0.111	U
1	53469-21-9	Aroclor 1242	0.111	U
1	12672-29-6	Aroclor 1248	0.111	U
1	11097-69-1	Aroclor 1254	2.79	AF
2	11096-82-5	Aroclor 1260	0.640	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>HF-31-BW (3FT)</u>
LRF Sample ID: <u>10120102-15RR1</u>	Lab Sample ID: <u>AN21706RR1</u>
Instrument 1 ID: <u>GC21B</u>	Instrument 2 ID: <u>GC21F</u>
Date Analyzed: <u>12/11/2010 5:11:56 PM</u>	Date Analyzed: <u>12/11/2010 5:11:52 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21B-1303-10</u>	Lab File ID 2: <u>GC21F-1370-10</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.08	8.24			
		2	NA	8.49	8.65			
		3	NA	9.10	9.26			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1221	1	1	NA	5.27	5.43			
		2	NA	6.42	6.58			
		3	NA	6.90	7.06			
		4	NA	7.11	7.27			
		5	NA	7.23	7.39			
	2	1	NA	4.44	4.60			
		2	NA	5.68	5.84			
		3	NA	6.23	6.39			
		4	NA	6.43	6.59			
		5	NA	6.55	6.71			
Aroclor 1232	1	1	NA	7.23	7.39			
		2	NA	8.49	8.65			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	6.55	6.71			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			
Aroclor 1242	1	1	NA	8.08	8.24			
		2	NA	8.50	8.66			
		3	NA	9.11	9.27			
		4	NA	9.33	9.49			
		5	NA	9.51	9.67			
	2	1	NA	7.44	7.60			
		2	NA	7.82	7.98			
		3	NA	8.44	8.60			
		4	NA	8.65	8.81			
		5	NA	8.79	8.95			

Relative Percent Difference Limit = 40.0%

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>HF-31-BW (3FT)</u>
LRF Sample ID: <u>10120102-15RR1</u>	Lab Sample ID: <u>AN21706RR1</u>
Instrument 1 ID: <u>GC21B</u>	Instrument 2 ID: <u>GC21F</u>
Date Analyzed: <u>12/11/2010 5:11:56 PM</u>	Date Analyzed: <u>12/11/2010 5:11:52 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21B-1303-10</u>	Lab File ID 2: <u>GC21F-1370-10</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.12	10.04	10.20			
		2	10.85	10.77	10.93			
		3	11.47	11.38	11.54			
		4	11.69	11.59	11.75			
		5	12.17	12.06	12.22			
	2	1	9.43	9.36	9.52			
		2	10.07	10.01	10.17			
		3	10.70	10.64	10.80			
		4	10.91	10.80	10.96			
		5	11.27	11.20	11.36			
Aroclor 1254	1	1	12.33	12.24	12.40			
		2	13.10	13.01	13.17			
		3	13.40	13.31	13.47			
		4	14.87	14.78	14.94			
		5	15.74	15.65	15.81	2.79		
	2	1	11.58	11.51	11.67			
		2	12.23	12.16	12.32			
		3	12.50	12.44	12.60			
		4	13.97	13.91	14.07			
		5	14.78	14.72	14.88	2.58	7.82	
Aroclor 1260	1	1	15.74	15.65	15.81			
		2	18.02	17.93	18.09			
		3	19.21	19.12	19.28			
		4	19.85	19.76	19.92			
		5	22.51	22.41	22.57	0.625		
	2	1	14.78	14.72	14.88			
		2	16.99	16.93	17.09			
		3	17.84	17.79	17.95			
		4	18.58	18.53	18.69			
		5	20.70	20.66	20.82	0.640	2.37	

ANALYTICAL SEQUENCE (GC21F)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 10120102

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 09/17/10,09/18/10,09/20/10

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>5.92</u>			DCBP RT: <u>25.04</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	091716A	GC21F-1302-3	09/17/2010 14:16:26	
02	A1016 100 PPB	091716B	GC21F-1302-4	09/17/2010 14:48:58	
03	A1016 250 PPB	091716C	GC21F-1302-5	09/17/2010 15:21:29	
04	A1016 500 PPB	091716D	GC21F-1302-6	09/17/2010 15:54:01	
05	A1016 1000 PPB	091716E	GC21F-1302-7	09/17/2010 16:26:33	
06	A1221 20 PPB	091721A	GC21F-1302-8	09/17/2010 16:59:04	
07	A1221 100 PPB	091721B	GC21F-1302-9	09/17/2010 17:31:36	
08	A1221 250 PPB	091721C	GC21F-1302-10	09/17/2010 18:04:08	
09	A1221 500 PPB	091721D	GC21F-1302-11	09/17/2010 18:36:39	
10	A1221 1000 PPB	091721E	GC21F-1302-12	09/17/2010 19:09:10	
11	A1232 20 PPB	091732A	GC21F-1302-13	09/17/2010 19:41:41	
12	A1232 100 PPB	091732B	GC21F-1302-14	09/17/2010 20:14:12	
13	A1232 250 PPB	091732C	GC21F-1302-15	09/17/2010 20:46:43	
14	A1232 500 PPB	091732D	GC21F-1302-16	09/17/2010 21:19:14	
15	A1232 1000 PPB	091732E	GC21F-1302-17	09/17/2010 21:51:46	
16	A1242 20 PPB	091742A	GC21F-1302-18	09/17/2010 22:24:18	
17	A1242 100 PPB	091742B	GC21F-1302-19	09/17/2010 22:56:48	
18	A1242 250 PPB	091742C	GC21F-1302-20	09/17/2010 23:29:18	
19	A1242 500 PPB	091742D	GC21F-1302-21	09/18/2010 00:01:49	
20	A1242 1000 PPB	091742E	GC21F-1302-22	09/18/2010 00:34:20	
21	A1248 20 PPB	091748A	GC21F-1302-23	09/18/2010 01:06:51	
22	A1248 100 PPB	091748B	GC21F-1302-24	09/18/2010 01:39:21	
23	A1248 250 PPB	091748C	GC21F-1302-25	09/18/2010 02:11:53	
24	A1248 500 PPB	091748D	GC21F-1302-26	09/18/2010 02:44:24	
25	A1248 1000 PPB	091748E	GC21F-1302-27	09/18/2010 03:16:55	
26	A1260 20 PPB	091760A	GC21F-1302-33	09/18/2010 06:32:12	
27	A1260 100 PPB	091760B	GC21F-1302-34	09/18/2010 07:04:42	
28	A1260 250 PPB	091760C	GC21F-1302-35	09/18/2010 07:37:13	
29	A1260 500 PPB	091760D	GC21F-1302-36	09/18/2010 08:09:43	
30	A1260 1000 PPB	091760E	GC21F-1302-37	09/18/2010 08:42:12	
31	A1262 20 PPB	091762A	GC21F-1302-38	09/18/2010 09:14:42	
32	A1262 100 PPB	091762B	GC21F-1302-39	09/18/2010 09:47:13	
33	A1262 250 PPB	091762C	GC21F-1302-40	09/18/2010 10:19:44	
34	A1262 500 PPB	091762D	GC21F-1302-41	09/18/2010 10:52:15	
35	A1262 1000 PPB	091762E	GC21F-1302-42	09/18/2010 11:24:47	
36	A1268 20 PPB	091768A	GC21F-1302-43	09/18/2010 11:57:18	
37	A1268 100 PPB	091768B	GC21F-1302-44	09/18/2010 12:29:51	
38	A1268 250 PPB	091768C	GC21F-1302-45	09/18/2010 13:02:23	

Column used to flag surrogate retention times outside expected range.

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 10120102

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 09/17/10,09/18/10,09/20/10

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>5.92</u>			DCBP RT: <u>25.04</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1268 500 PPB	091768D	GC21F-1302-46	09/18/2010 13:34:55	
40	A1268 1000 PPB	091768E	GC21F-1302-47	09/18/2010 14:07:26	
41	A1254 20 PPB	092054A	GC21F-1302-50	09/20/2010 06:12:16	5.91
42	A1254 100 PPB	092054B	GC21F-1302-51	09/20/2010 06:44:46	5.92
43	A1254 250 PPB	092054C	GC21F-1302-52	09/20/2010 07:17:16	5.92
44	A1254 500 PPB	092054D	GC21F-1302-53	09/20/2010 07:49:47	5.92
45	A1254 1000 PPB	092054E	GC21F-1302-54	09/20/2010 08:22:18	5.91
46	IUPAC 15 20 PPB	0920FSA	GC21F-1302-56	09/20/2010 09:27:20	
47	IUPAC 15 50 PPB	0920FSB	GC21F-1302-57	09/20/2010 09:59:52	
48	IUPAC 15 80 PPB	0920FSC	GC21F-1302-58	09/20/2010 10:32:23	
49	IUPAC 15 100 PPB	0920FSD	GC21F-1302-59	09/20/2010 11:04:54	
50	IUPAC 15 200 PPB	0920FSE	GC21F-1302-60	09/20/2010 11:37:26	
51	A1016 500 PPB	CS160920A	GC21F-1302-62	09/20/2010 12:42:31	5.91
52	A1221 500 PPB	CS210920A	GC21F-1302-63	09/20/2010 13:15:04	5.92
53	A1232 500 PPB	CS320920A	GC21F-1302-64	09/20/2010 13:47:36	5.92
54	A1242 500 PPB	CS420920A	GC21F-1302-65	09/20/2010 14:20:08	5.91
55	A1248 500 PPB	CS480920A	GC21F-1302-66	09/20/2010 14:52:40	5.92
56	A1254 500 PPB	CS540920A	GC21F-1302-67	09/20/2010 15:25:12	5.92
57	A1260 500 PPB	CS600920A	GC21F-1302-68	09/20/2010 15:57:44	5.91
58	A1262 500 PPB	CS620920A	GC21F-1302-69	09/20/2010 16:30:16	5.92
59	A1268 500 PPB	CS680920A	GC21F-1302-70	09/20/2010 17:02:48	5.92
60	SURR IUPAC 15 70 PPB	100920FS01	GC21F-1302-71	09/20/2010 17:35:21	5.92
61	A1254 500 PPB	CS541210A	GC21F-1369-15	12/11/2010 00:00:32	5.92
62	PBLK-95(METHOD BLANK)	AN21692B	GC21F-1369-16	12/11/2010 00:33:04	5.92
63	LCS-95(LAB CONTROL SPIKE)	AN21692L	GC21F-1369-17	12/11/2010 01:05:36	5.92
64	SB-118-1A (1-3')	AN21693	GC21F-1369-19	12/11/2010 02:10:40	5.92(D)
65	SB-118-1A (4-5')	AN21694	GC21F-1369-20	12/11/2010 02:43:12	5.92
66	SB-118-1B (0-1')	AN21696	GC21F-1369-21	12/11/2010 03:15:43	5.92
67	SB-118-1B (1-3')	AN21697	GC21F-1369-22	12/11/2010 03:48:15	5.92(D)
68	SB-118-1B (3-4')	AN21698	GC21F-1369-23	12/11/2010 04:20:47	5.92(D)
69	SB-118-1B (6-7')	AN21699	GC21F-1369-24	12/11/2010 04:53:18	5.92
70	A1260 500 PPB	CS601210A	GC21F-1369-25	12/11/2010 05:25:50	5.92
71	A1221 500 PPB	CS211211A	GC21F-1370-3	12/11/2010 13:24:09	5.92
72	SB-118-1A (0-1')	AN21692RR1	GC21F-1370-4	12/11/2010 13:56:41	5.92
73	HF-31-SSW	AN21701RR1	GC21F-1370-5	12/11/2010 14:29:13	5.92
74	HF-31-WSW	AN21702RR1	GC21F-1370-6	12/11/2010 15:01:45	5.92
75	HF-31-NSW	AN21703RR1	GC21F-1370-7	12/11/2010 15:34:17	5.92
76	HF-31-ESW	AN21704RR1	GC21F-1370-8	12/11/2010 16:06:49	5.92

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: NEA - A Division of PACE

SDG No: 10120102

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 09/17/10,09/18/10,09/20/10

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION						
			TCMX RT: <u>5.92</u>			
			DCBP RT: <u>25.04</u>			
#	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
77	HF-31-ESWD	AN21705RR1	GC21F-1370-9	12/11/2010 16:39:21	5.92	24.96
78	HF-31-BW (3FT)	AN21706RR1	GC21F-1370-10	12/11/2010 17:11:52	5.92	24.96
79	A1232 500 PPB	CS321211A	GC21F-1370-11	12/11/2010 17:44:24	5.92	24.96

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC21F)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zetron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 10120102
 Date(s) Analyzed: 09/17/10, 09/18/10, 09/20/10

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC21F-1302-3	091716A	20.0	66.223		
	GC21F-1302-4	091716B	100	67.630		
	GC21F-1302-5	091716C	250	72.445		
	GC21F-1302-6	091716D	500	63.162		
	GC21F-1302-7	091716E	1000	65.237	66.939	5.2
Aroclor 1221	GC21F-1302-8	091721A	20.0	17.061		
	GC21F-1302-9	091721B	100	18.009		
	GC21F-1302-10	091721C	250	17.817		
	GC21F-1302-11	091721D	500	17.614		
	GC21F-1302-12	091721E	1000	18.032	17.707	2.3
Aroclor 1232	GC21F-1302-13	091732A	20.0	31.568		
	GC21F-1302-14	091732B	100	34.401		
	GC21F-1302-15	091732C	250	33.235		
	GC21F-1302-18	091732D	500	33.147		
	GC21F-1302-17	091732E	1000	32.261	32.923	3.3
Aroclor 1242	GC21F-1302-18	091742A	20.0	58.489		
	GC21F-1302-19	091742B	100	59.990		
	GC21F-1302-20	091742C	250	60.063		
	GC21F-1302-21	091742D	500	55.027		
	GC21F-1302-22	091742E	1000	56.384	57.990	3.8
Aroclor 1248	GC21F-1302-23	091748A	20.0	64.759		
	GC21F-1302-24	091748B	100	60.008		
	GC21F-1302-25	091748C	250	62.675		
	GC21F-1302-26	091748D	500	60.272		
	GC21F-1302-27	091748E	1000	57.447	61.072	4.6
Aroclor 1254	GC21F-1302-50	092054A	20.0	79.876		
	GC21F-1302-51	092054B	100	90.113		
	GC21F-1302-52	092054C	250	89.239		
	GC21F-1302-53	092054D	500	87.327		
	GC21F-1302-54	092054E	1000	81.382	85.587	5.5
Aroclor 1260	GC21F-1302-33	091760A	20.0	95.271		
	GC21F-1302-34	091760B	100	97.285		
	GC21F-1302-35	091760C	250	97.697		
	GC21F-1302-36	091760D	500	95.810		
	GC21F-1302-37	091760E	1000	88.347	94.882	4.0
Aroclor 1262	GC21F-1302-38	091762A	20.0	101.674		
	GC21F-1302-39	091762B	100	97.272		
	GC21F-1302-40	091762C	250	92.358		
	GC21F-1302-41	091762D	500	90.596		
	GC21F-1302-42	091762E	1000	86.554	93.731	6.4

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 10120102
 Date(s) Analyzed: 09/17/10,09/19/10,09/20/10

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC21F-1302-43	091768A	20.0	175.754		
	GC21F-1302-44	091768B	100	176.164		
	GC21F-1302-45	091768C	250	176.903		
	GC21F-1302-46	091768D	500	167.980		
	GC21F-1302-47	091768E	1000	162.386	171.837	3.7
TCMX	GC21F-1302-50	092054A	2.00	364.602		
	GC21F-1302-51	092054B	5.00	411.105		
	GC21F-1302-52	092054C	8.00	381.902		
	GC21F-1302-53	092054D	10.0	386.325		
	GC21F-1302-54	092054E	20.0	354.719	379.730	5.7
4,4'-Dibromobiphenyl	GC21F-1302-56	0920FSA	20.0	218.899		
	GC21F-1302-57	0920FSB	50.0	195.327		
	GC21F-1302-58	0920FSC	80.0	220.430		
	GC21F-1302-59	0920FSD	100	199.019		
	GC21F-1302-60	0920FSE	200	197.458	206.227	6.0
DCBP	GC21F-1302-50	092054A	20.0	285.861		
	GC21F-1302-51	092054B	50.0	327.790		
	GC21F-1302-52	092054C	80.0	332.004		
	GC21F-1302-53	092054D	100	333.518		
	GC21F-1302-54	092054E	200	314.086	318.652	6.2

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

**INITIAL/CONTINUING CALIBRATION DATA
(GC21F)**

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SDG NO: 10120102

ELAP ID No: 11078

Instrument ID: GC21F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC21F-1302-62	CS160920A	ICV	495	500	-0.989	09/20/2010 12:42:31
Aroclor 1221	GC21F-1302-63	CS210920A	ICV	502	500	0.329	09/20/2010 13:15:04
Aroclor 1232	GC21F-1302-64	CS320920A	ICV	492	500	-1.55	09/20/2010 13:47:36
Aroclor 1242	GC21F-1302-65	CS420920A	ICV	483	500	-3.34	09/20/2010 14:20:08
Aroclor 1248	GC21F-1302-66	CS460920A	ICV	472	500	-5.56	09/20/2010 14:52:40
Aroclor 1254	GC21F-1302-67	CS540920A	ICV	484	500	-3.27	09/20/2010 15:25:12
Aroclor 1260	GC21F-1302-68	CS600920A	ICV	479	500	-4.26	09/20/2010 15:57:44
Aroclor 1262	GC21F-1302-69	CS620920A	ICV	544	500	8.75	09/20/2010 16:30:16
Aroclor 1266	GC21F-1302-70	CS680920A	ICV	505	500	0.965	09/20/2010 17:02:46
Aroclor 1254	GC21F-1369-15	CS541210A	CCV	561	500	12.2	12/11/2010 00:00:32
Aroclor 1260	GC21F-1369-25	CS601210A	CCV	528	500	5.67	12/11/2010 05:25:50
Aroclor 1221	GC21F-1370-3	CS211211A	CCV	553	500	10.7	12/11/2010 13:24:09
Aroclor 1232	GC21F-1370-11	CS321211A	CCV	532	500	6.31	12/11/2010 17:44:24

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 10120102

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC21F-1302-62	CS160920A	ICV	1	7.52	7.44	7.60
		CS160920A	ICV	2	7.90	7.82	7.98
		CS160920A	ICV	3	8.52	8.44	8.60
		CS160920A	ICV	4	8.73	8.65	8.81
		CS160920A	ICV	5	8.87	8.79	8.95
Aroclor 1221	GC21F-1302-63	CS210920A	ICV	1	4.52	4.44	4.60
		CS210920A	ICV	2	5.76	5.68	5.84
		CS210920A	ICV	3	6.31	6.23	6.39
		CS210920A	ICV	4	6.51	6.43	6.59
		CS210920A	ICV	5	6.63	6.55	6.71
Aroclor 1232	GC21F-1302-64	CS320920A	ICV	1	6.63	6.55	6.71
		CS320920A	ICV	2	7.90	7.82	7.98
		CS320920A	ICV	3	8.52	8.44	8.60
		CS320920A	ICV	4	8.73	8.65	8.81
		CS320920A	ICV	5	8.87	8.79	8.95
Aroclor 1242	GC21F-1302-65	CS420920A	ICV	1	7.52	7.44	7.60
		CS420920A	ICV	2	7.90	7.82	7.98
		CS420920A	ICV	3	8.52	8.44	8.60
		CS420920A	ICV	4	8.73	8.65	8.81
		CS420920A	ICV	5	8.87	8.79	8.95
Aroclor 1248	GC21F-1302-66	CS480920A	ICV	1	9.44	9.36	9.52
		CS480920A	ICV	2	10.09	10.01	10.17
		CS480920A	ICV	3	10.72	10.64	10.80
		CS480920A	ICV	4	10.88	10.80	10.96
		CS480920A	ICV	5	11.28	11.20	11.36
Aroclor 1254	GC21F-1302-67	CS540920A	ICV	1	11.59	11.51	11.67
		CS540920A	ICV	2	12.24	12.16	12.32
		CS540920A	ICV	3	12.52	12.44	12.60
		CS540920A	ICV	4	13.99	13.91	14.07
		CS540920A	ICV	5	14.80	14.72	14.88
Aroclor 1260	GC21F-1302-68	CS600920A	ICV	1	14.80	14.72	14.88
		CS600920A	ICV	2	17.01	16.93	17.09
		CS600920A	ICV	3	17.87	17.79	17.95
		CS600920A	ICV	4	18.61	18.53	18.69
		CS600920A	ICV	5	20.74	20.66	20.82
Aroclor 1262	GC21F-1302-69	CS620920A	ICV	1	14.80	14.72	14.88
		CS620920A	ICV	2	17.01	16.93	17.09
		CS620920A	ICV	3	17.87	17.79	17.95

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 10120102

ELAP ID No: 11078

Instrument ID: GC21F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS620920A	ICV	4	18.62	18.54	18.70
		CS620920A	ICV	5	20.74	20.66	20.82
Aroclor 1268	GC21F-1302-70	CS680920A	ICV	1	18.62	18.54	18.70
		CS680920A	ICV	2	20.74	20.66	20.82
		CS680920A	ICV	3	18.40	18.32	18.48
		CS680920A	ICV	4	19.87	19.79	19.95
		CS680920A	ICV	5	20.23	20.15	20.31

ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 10120102

ELAP ID No: 11078

Instrument ID: GC21F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1221	GC21F-1370-3	CS211211A	CCV	1	4.53	4.44	4.60
		CS211211A	CCV	2	5.76	5.68	5.84
		CS211211A	CCV	3	6.32	6.23	6.39
		CS211211A	CCV	4	6.51	6.43	6.59
		CS211211A	CCV	5	6.63	6.55	6.71
Aroclor 1232	GC21F-1370-11	CS321211A	CCV	1	6.63	6.55	6.71
		CS321211A	CCV	2	7.90	7.82	7.98
		CS321211A	CCV	3	8.52	6.44	6.60
		CS321211A	CCV	4	8.73	8.65	8.81
		CS321211A	CCV	5	8.86	8.79	8.95
Aroclor 1254	GC21F-1369-15	CS541210A	CCV	1	11.57	11.51	11.67
		CS541210A	CCV	2	12.22	12.16	12.32
		CS541210A	CCV	3	12.50	12.44	12.60
		CS541210A	CCV	4	13.96	13.91	14.07
		CS541210A	CCV	5	14.77	14.72	14.88
Aroclor 1260	GC21F-1369-25	CS601210A	CCV	1	14.78	14.72	14.88
		CS601210A	CCV	2	16.98	16.93	17.09
		CS601210A	CCV	3	17.84	17.79	17.95
		CS601210A	CCV	4	18.58	18.53	18.69
		CS601210A	CCV	5	20.69	20.66	20.82

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

ANALYTICAL SEQUENCE (GC21B)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 10120102

ELAP ID No: 11078

Instrument ID: GC21B

Init. Calib. Date(s): 09/17/10,09/18/10,09/20/10

GC Column (1): Phenomenex, Zobraon ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION						
		TCMX RT: <u>6.54</u>	DCBP RT: <u>27.47</u>			
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	091716A	GC21B-1235-3	09/17/2010 14:16:30		
02	A1016 100 PPB	091716B	GC21B-1235-4	09/17/2010 14:49:02		
03	A1016 250 PPB	091716C	GC21B-1235-5	09/17/2010 15:21:33		
04	A1016 500 PPB	091716D	GC21B-1235-6	09/17/2010 15:54:05		
05	A1016 1000 PPB	091716E	GC21B-1235-7	09/17/2010 16:26:37		
06	A1221 20 PPB	091721A	GC21B-1235-8	09/17/2010 16:59:08		
07	A1221 100 PPB	091721B	GC21B-1235-9	09/17/2010 17:31:40		
08	A1221 250 PPB	091721C	GC21B-1235-10	09/17/2010 18:04:12		
09	A1221 500 PPB	091721D	GC21B-1235-11	09/17/2010 18:36:43		
10	A1221 1000 PPB	091721E	GC21B-1235-12	09/17/2010 19:09:14		
11	A1232 20 PPB	091732A	GC21B-1235-13	09/17/2010 19:41:45		
12	A1232 100 PPB	091732B	GC21B-1235-14	09/17/2010 20:14:16		
13	A1232 250 PPB	091732C	GC21B-1235-15	09/17/2010 20:46:47		
14	A1232 500 PPB	091732D	GC21B-1235-16	09/17/2010 21:19:18		
15	A1232 1000 PPB	091732E	GC21B-1235-17	09/17/2010 21:51:50		
16	A1242 20 PPB	091742A	GC21B-1235-18	09/17/2010 22:24:22		
17	A1242 100 PPB	091742B	GC21B-1235-19	09/17/2010 22:56:52		
18	A1242 250 PPB	091742C	GC21B-1235-20	09/17/2010 23:29:22		
19	A1242 500 PPB	091742D	GC21B-1235-21	09/18/2010 00:01:53		
20	A1242 1000 PPB	091742E	GC21B-1235-22	09/18/2010 00:34:24		
21	A1248 20 PPB	091748A	GC21B-1235-23	09/18/2010 01:06:55		
22	A1248 100 PPB	091748B	GC21B-1235-24	09/18/2010 01:39:25		
23	A1248 250 PPB	091748C	GC21B-1235-25	09/18/2010 02:11:57		
24	A1248 500 PPB	091748D	GC21B-1235-26	09/18/2010 02:44:28		
25	A1248 1000 PPB	091748E	GC21B-1235-27	09/18/2010 03:16:59		
26	A1260 20 PPB	091760A	GC21B-1235-33	09/18/2010 06:32:16		
27	A1260 100 PPB	091760B	GC21B-1235-34	09/18/2010 07:04:46		
28	A1260 250 PPB	091760C	GC21B-1235-35	09/18/2010 07:37:17		
29	A1260 500 PPB	091760D	GC21B-1235-36	09/18/2010 08:09:47		
30	A1260 1000 PPB	091760E	GC21B-1235-37	09/18/2010 08:42:16		
31	A1262 20 PPB	091762A	GC21B-1235-38	09/18/2010 09:14:46		
32	A1262 100 PPB	091762B	GC21B-1235-39	09/18/2010 09:47:17		
33	A1262 250 PPB	091762C	GC21B-1235-40	09/18/2010 10:19:48		
34	A1262 500 PPB	091762D	GC21B-1235-41	09/18/2010 10:52:19		
35	A1262 1000 PPB	091762E	GC21B-1235-42	09/18/2010 11:24:51		
36	A1268 20 PPB	091768A	GC21B-1235-43	09/18/2010 11:57:22		
37	A1268 100 PPB	091768B	GC21B-1235-44	09/18/2010 12:29:55		
38	A1268 250 PPB	091768C	GC21B-1235-45	09/18/2010 13:02:27		

Column used to flag surrogate retention times outside expected range.

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 10120102

ELAP ID No: 11078

Instrument ID: GC21B

Init. Calib. Date(s): 09/17/10,09/18/10,09/20/10

GC Column (1): Phenomenex, Zorbex ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION						
TCMX RT: <u>6.54</u>			DCBP RT: <u>27.47</u>			
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)	
39	A1268 500 PPB	091768D	GC21B-1235-46	09/18/2010 13:34:59		
40	A1268 1000 PPB	091768E	GC21B-1235-47	09/18/2010 14:07:30		
41	A1254 20 PPB	092054A	GC21B-1235-50	09/20/2010 06:12:20	6.54	27.47
42	A1254 100 PPB	092054B	GC21B-1235-51	09/20/2010 06:44:50	6.54	27.47
43	A1254 250 PPB	092054C	GC21B-1235-52	09/20/2010 07:17:20	6.55	27.46
44	A1254 500 PPB	092054D	GC21B-1235-53	09/20/2010 07:49:51	6.54	27.47
45	A1254 1000 PPB	092054E	GC21B-1235-54	09/20/2010 08:22:22	6.54	27.46
46	IUPAC 15 20 PPB	0920FSA	GC21B-1235-56	09/20/2010 09:27:24		
47	IUPAC 15 50 PPB	0920FSB	GC21B-1235-57	09/20/2010 09:59:56		
48	IUPAC 15 80 PPB	0920FSC	GC21B-1235-58	09/20/2010 10:32:27		
49	IUPAC 15 100 PPB	0920FSD	GC21B-1235-59	09/20/2010 11:04:58		
50	IUPAC 15 200 PPB	0920FSE	GC21B-1235-60	09/20/2010 11:37:30		
51	A1016 500 PPB	CS160920A	GC21B-1235-62	09/20/2010 12:42:35	6.54	27.45
52	A1221 500 PPB	CS210920A	GC21B-1235-63	09/20/2010 13:15:08	6.54	27.46
53	A1232 500 PPB	CS320920A	GC21B-1235-64	09/20/2010 13:47:40	6.55	27.46
54	A1242 500 PPB	CS420920A	GC21B-1235-65	09/20/2010 14:20:12	6.55	27.46
55	A1248 500 PPB	CS480920A	GC21B-1235-66	09/20/2010 14:52:44	6.55	27.46
56	A1254 500 PPB	CS540920A	GC21B-1235-67	09/20/2010 15:25:16	6.54	27.46
57	A1260 500 PPB	CS600920A	GC21B-1235-68	09/20/2010 15:57:48	6.54	27.45
58	A1262 500 PPB	CS620920A	GC21B-1235-69	09/20/2010 16:30:20	6.54	27.46
59	A1268 500 PPB	CS680920A	GC21B-1235-70	09/20/2010 17:02:52	6.54	27.46
60	SURR IUPAC 15 70 PPB	100920FS01	GC21B-1235-71	09/20/2010 17:35:25	6.54	27.46
61	A1254 500 PPB	CS541210A	GC21B-1302-15	12/11/2010 00:00:36	6.55	27.49
62	PBLK-95(METHOD BLANK)	AN21692B	GC21B-1302-16	12/11/2010 00:33:08	6.55	27.49
63	LCS-95(LAB CONTROL SPIKE)	AN21692L	GC21B-1302-17	12/11/2010 01:05:41	6.55	27.49
64	SB-118-1A (1-3')	AN21693	GC21B-1302-19	12/11/2010 02:10:44	6.55(D)	27.49(D)
65	SB-118-1A (4-5')	AN21694	GC21B-1302-20	12/11/2010 02:43:16	6.55	27.49
66	SB-118-1B (0-1')	AN21696	GC21B-1302-21	12/11/2010 03:15:47	6.55	27.50
67	SB-118-1B (1-3')	AN21697	GC21B-1302-22	12/11/2010 03:48:19	6.55(D)	27.48(D)
68	SB-118-1B (3-4')	AN21698	GC21B-1302-23	12/11/2010 04:20:51	6.55(D)	27.49(D)
69	SB-118-1B (6-7')	AN21699	GC21B-1302-24	12/11/2010 04:53:22	6.55	27.49
70	A1260 500 PPB	CS601210A	GC21B-1302-25	12/11/2010 05:25:53	6.55	27.48
71	A1221 500 PPB	CS211211A	GC21B-1303-3	12/11/2010 13:24:13	6.55	27.49
72	SB-118-1A (0-1')	AN21692RR1	GC21B-1303-4	12/11/2010 13:56:45	6.55	27.48
73	HF-31-SSW	AN21701RR1	GC21B-1303-5	12/11/2010 14:29:17	6.55	27.48
74	HF-31-WSW	AN21702RR1	GC21B-1303-6	12/11/2010 15:01:49	6.55	27.48
75	HF-31-NSW	AN21703RR1	GC21B-1303-7	12/11/2010 15:34:21	6.55	27.49
76	HF-31-ESW	AN21704RR1	GC21B-1303-8	12/11/2010 16:06:53	6.55	27.48

Column used to flag surrogate retention times outside expected range.

8-D-1
PCB ANALYTICAL SEQUENCE

Laboratory Name: NEA - A Division of PACE

SDG No: 10120102

ELAP ID No: 11078

Instrument ID: GC21B Init. Calib. Date(s): 09/17/10,09/18/10,09/20/10

GC Column (1): Phenomenex, Zebro ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION						
			TCMX RT: <u>6.54</u> DCBP RT: <u>27.47</u>			
#	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
77	HF-31-ESWD	AN21705RR1	GC21B-1303-9	12/11/2010 16:39:25	6.55	27.48
78	HF-31-BW (3FT)	AN21706RR1	GC21B-1303-10	12/11/2010 17:11:56	6.55	27.49
79	A1232 500 PPB	CS321211A	GC21B-1303-11	12/11/2010 17:44:28	6.55	27.49

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC21B)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE

SDG NO: 10120102

ELAP ID No: 11078

Date(s) Analyzed: 09/17/10,09/18/10,09/20/10

Instrument ID: GC21B

GC Column: Phenomenex, Zebro ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC21B-1235-3	091716A	20.0	72.455		
	GC21B-1235-4	091716B	100	85.234		
	GC21B-1235-5	091716C	250	76.233		
	GC21B-1235-6	091716D	500	74.942		
	GC21B-1235-7	091716E	1000	73.561	76.885	6.7
Aroclor 1221	GC21B-1235-8	091721A	20.0	19.713		
	GC21B-1235-9	091721B	100	20.333		
	GC21B-1235-10	091721C	250	20.944		
	GC21B-1235-11	091721D	500	20.698		
	GC21B-1235-12	091721E	1000	20.353	20.408	2.3
Aroclor 1232	GC21B-1235-13	091732A	20.0	34.744		
	GC21B-1235-14	091732B	100	38.866		
	GC21B-1235-15	091732C	250	39.148		
	GC21B-1235-16	091732D	500	37.213		
	GC21B-1235-17	091732E	1000	36.580	37.310	4.8
Aroclor 1242	GC21B-1235-18	091742A	20.0	66.548		
	GC21B-1235-19	091742B	100	69.587		
	GC21B-1235-20	091742C	250	70.300		
	GC21B-1235-21	091742D	500	68.011		
	GC21B-1235-22	091742E	1000	65.288	67.947	3.1
Aroclor 1248	GC21B-1235-23	091748A	20.0	69.252		
	GC21B-1235-24	091748B	100	75.643		
	GC21B-1235-25	091748C	250	72.717		
	GC21B-1235-26	091748D	500	67.632		
	GC21B-1235-27	091748E	1000	67.340	70.517	5.1
Aroclor 1254	GC21B-1235-50	092054A	20.0	97.391		
	GC21B-1235-51	092054B	100	107.653		
	GC21B-1235-52	092054C	250	107.021		
	GC21B-1235-53	092054D	500	103.862		
	GC21B-1235-54	092054E	1000	100.375	103.260	4.2
Aroclor 1260	GC21B-1235-33	091760A	20.0	141.754		
	GC21B-1235-34	091760B	100	155.670		
	GC21B-1235-35	091760C	250	150.215		
	GC21B-1235-36	091760D	500	146.670		
	GC21B-1235-37	091760E	1000	147.236	148.309	3.4
Aroclor 1262	GC21B-1235-38	091762A	20.0	138.815		
	GC21B-1235-39	091762B	100	160.956		
	GC21B-1235-40	091762C	250	157.247		
	GC21B-1235-41	091762D	500	153.998		
	GC21B-1235-42	091762E	1000	156.256	153.454	5.6

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 10120102
 Date(s) Analyzed: 09/17/10,09/18/10,09/20/10

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC21B-1235-43	091768A	20.0	256.143		
	GC21B-1235-44	091768B	100	289.435		
	GC21B-1235-45	091768C	250	274.962		
	GC21B-1235-46	091768D	500	274.628		
	GC21B-1235-47	091768E	1000	265.378	272.109	4.6
TCMX	GC21B-1235-50	092054A	2.00	473.455		
	GC21B-1235-51	092054B	5.00	436.786		
	GC21B-1235-52	092054C	8.00	434.838		
	GC21B-1235-53	092054D	10.0	431.406		
	GC21B-1235-54	092054E	20.0	423.107	439.918	4.4
4,4'-Dibromobiphenyl	GC21B-1235-56	0920FSA	20.0	252.899		
	GC21B-1235-57	0920FSB	50.0	245.650		
	GC21B-1235-58	0920FSC	80.0	254.784		
	GC21B-1235-59	0920FSD	100	232.692		
	GC21B-1235-60	0920FSE	200	231.809	243.567	4.5
DCBP	GC21B-1235-50	092054A	20.0	425.066		
	GC21B-1235-51	092054B	50.0	404.618		
	GC21B-1235-52	092054C	80.0	399.013		
	GC21B-1235-53	092054D	100	400.171		
	GC21B-1235-54	092054E	200	390.546	403.883	3.2

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

**INITIAL/CONTINUING CALIBRATION DATA
(GC21B)**

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SDG NO: 10120102

ELAP ID No: 11078

Instrument ID: GC21B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC21B-1235-62	CS160920A	ICV	503	500	0.570	09/20/2010 12:42:35
Aroclor 1221	GC21B-1235-63	CS210920A	ICV	504	500	0.709	09/20/2010 13:15:08
Aroclor 1232	GC21B-1235-64	CS320920A	ICV	478	500	-4.46	09/20/2010 13:47:40
Aroclor 1242	GC21B-1235-65	CS420920A	ICV	445	500	-11.0	09/20/2010 14:20:12
Aroclor 1248	GC21B-1235-66	CS480920A	ICV	476	500	-4.82	09/20/2010 14:52:44
Aroclor 1254	GC21B-1235-67	CS540920A	ICV	526	500	5.19	09/20/2010 15:25:16
Aroclor 1260	GC21B-1235-68	CS600920A	ICV	470	500	-5.92	09/20/2010 15:57:48
Aroclor 1262	GC21B-1235-69	CS620920A	ICV	507	500	1.49	09/20/2010 16:30:20
Aroclor 1268	GC21B-1235-70	CS680920A	ICV	491	500	-1.77	09/20/2010 17:02:52
Aroclor 1254	GC21B-1302-15	CS541210A	CCV	547	500	9.33	12/11/2010 00:00:36
Aroclor 1260	GC21B-1302-25	CS601210A	CCV	496	500	-0.783	12/11/2010 05:25:53
Aroclor 1221	GC21B-1303-3	CS211211A	CCV	562	500	12.5	12/11/2010 13:24:13
Aroclor 1232	GC21B-1303-11	CS321211A	CCV	510	500	1.98	12/11/2010 17:44:28

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 10120102

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC21B-1235-62	CS160920A	ICV	1	8.16	8.08	8.24
		CS160920A	ICV	2	8.57	8.49	8.65
		CS160920A	ICV	3	9.18	9.10	9.26
		CS160920A	ICV	4	9.41	9.33	9.49
		CS160920A	ICV	5	9.59	9.51	9.67
Aroclor 1221	GC21B-1235-63	CS210920A	ICV	1	5.35	5.27	5.43
		CS210920A	ICV	2	6.50	6.42	6.58
		CS210920A	ICV	3	6.98	6.90	7.06
		CS210920A	ICV	4	7.19	7.11	7.27
		CS210920A	ICV	5	7.31	7.23	7.39
Aroclor 1232	GC21B-1235-64	CS320920A	ICV	1	7.31	7.23	7.39
		CS320920A	ICV	2	8.57	8.49	8.65
		CS320920A	ICV	3	9.19	9.11	9.27
		CS320920A	ICV	4	9.41	9.33	9.49
		CS320920A	ICV	5	9.59	9.51	9.67
Aroclor 1242	GC21B-1235-65	CS420920A	ICV	1	8.16	8.08	8.24
		CS420920A	ICV	2	8.58	8.50	8.66
		CS420920A	ICV	3	9.19	9.11	9.27
		CS420920A	ICV	4	9.41	9.33	9.49
		CS420920A	ICV	5	9.59	9.51	9.67
Aroclor 1248	GC21B-1235-66	CS480920A	ICV	1	10.12	10.04	10.20
		CS480920A	ICV	2	10.85	10.77	10.93
		CS480920A	ICV	3	11.46	11.38	11.54
		CS480920A	ICV	4	11.67	11.59	11.75
		CS480920A	ICV	5	12.14	12.08	12.22
Aroclor 1254	GC21B-1235-67	CS540920A	ICV	1	12.32	12.24	12.40
		CS540920A	ICV	2	13.09	13.01	13.17
		CS540920A	ICV	3	13.39	13.31	13.47
		CS540920A	ICV	4	14.86	14.78	14.94
		CS540920A	ICV	5	15.73	15.65	15.81
Aroclor 1260	GC21B-1235-68	CS600920A	ICV	1	15.73	15.65	15.81
		CS600920A	ICV	2	18.01	17.93	18.09
		CS600920A	ICV	3	19.20	19.12	19.28
		CS600920A	ICV	4	19.84	19.76	19.92
		CS600920A	ICV	5	22.49	22.41	22.57
Aroclor 1262	GC21B-1235-69	CS620920A	ICV	1	15.73	15.65	15.81
		CS620920A	ICV	2	18.01	17.93	18.09
		CS620920A	ICV	3	19.20	19.12	19.28

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zobron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 10120102

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS620920A	ICV	4	19.84	19.76	19.92
		CS620920A	ICV	5	22.49	22.41	22.57
Aroclor 1268	GC21B-1235-70	CS680920A	ICV	1	19.84	19.76	19.92
		CS680920A	ICV	2	22.49	22.41	22.57
		CS680920A	ICV	3	19.60	19.52	19.68
		CS680920A	ICV	4	21.27	21.19	21.35
		CS680920A	ICV	5	21.71	21.63	21.79

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 10120102

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1221	GC21B-1303-3	CS211211A	CCV	1	5.36	5.27	5.43
		CS211211A	CCV	2	6.51	6.42	6.58
		CS211211A	CCV	3	6.99	6.90	7.06
		CS211211A	CCV	4	7.19	7.11	7.27
		CS211211A	CCV	5	7.31	7.23	7.39
Aroclor 1232	GC21B-1303-11	CS321211A	CCV	1	7.31	7.23	7.39
		CS321211A	CCV	2	8.58	8.49	8.65
		CS321211A	CCV	3	9.19	9.11	9.27
		CS321211A	CCV	4	9.42	9.33	9.49
		CS321211A	CCV	5	9.60	9.51	9.67
Aroclor 1254	GC21B-1302-15	CS541210A	CCV	1	12.33	12.24	12.40
		CS541210A	CCV	2	13.10	13.01	13.17
		CS541210A	CCV	3	13.39	13.31	13.47
		CS541210A	CCV	4	14.87	14.78	14.94
		CS541210A	CCV	5	15.74	15.65	15.81
Aroclor 1260	GC21B-1302-25	CS601210A	CCV	1	15.74	15.65	15.81
		CS801210A	CCV	2	18.02	17.93	18.09
		CS601210A	CCV	3	19.21	19.12	19.28
		CS601210A	CCV	4	19.86	19.76	19.92
		CS601210A	CCV	5	22.51	22.41	22.57

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

QC SAMPLE RAW DATA

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>PBLK-95</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>METHOD BLANK</u>
Sample wt(Dry)/vol: <u>10.228 g</u>	Lab Sample ID: <u>AN21692B</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC21F-1369-16</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>12/09/2010</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>PBLK-95</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>METHOD BLANK</u>
Sample wt(Dry)/vol: <u>10.228 g</u>	Lab Sample ID: <u>AN21692B</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC21B-1302-16</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>12/09/2010</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>LCS-95</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol: <u>10.091 g</u>	Lab Sample ID: <u>AN21692L</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC21F-1369-17</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>12/09/2010</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.32	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

1D-1
PCB ANALYSIS DATA SHEET

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>LCS-95</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol: <u>10.091 g</u>	Lab Sample ID: <u>AN21692L</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC21B-1302-17</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>12/09/2010</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>12/11/2010</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.30	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B

PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: LCS-95
 Instrument 1 ID: GC21F
 Date Analyzed: 12/11/2010 1:05:36 AM
 GC Column 1: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC21F-1369-17
 Matrix: Soil

SDG No: 10120102
 Client ID: LCS-95(LAB CONTROL SPIKE)
 Lab Sample ID: AN21692L
 Instrument 2 ID: GC21B
 Date Analyzed: 12/11/2010 1:05:41 AM
 GC Column 2: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC21B-1302-17

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.52	7.44	7.60			
		2	7.90	7.82	7.98			
		3	8.52	8.44	8.60			
		4	8.72	8.65	8.81			
		5	8.86	8.79	8.95			
	2	1	8.17	8.08	8.24			
		2	8.58	8.49	8.65			
		3	9.19	9.10	9.26			
		4	9.42	9.33	9.49			
		5	9.60	9.51	9.67			
Aroclor 1221	1	1	NA	4.44	4.60			
		2	NA	5.68	5.84			
		3	NA	6.23	6.39			
		4	NA	6.43	6.59			
		5	NA	6.55	6.71			
	2	1	NA	5.27	5.43			
		2	NA	6.42	6.58			
		3	NA	6.90	7.06			
		4	NA	7.11	7.27			
		5	NA	7.23	7.39			
Aroclor 1232	1	1	NA	6.55	6.71			
		2	7.90	7.82	7.98			
		3	8.52	8.44	8.60			
		4	8.72	8.65	8.81			
		5	8.86	8.79	8.95			
	2	1	NA	7.23	7.39			
		2	8.58	8.49	8.65			
		3	9.19	9.11	9.27			
		4	9.42	9.33	9.49			
		5	9.60	9.51	9.67			
Aroclor 1242	1	1	7.52	7.44	7.60			
		2	7.90	7.82	7.98			
		3	8.52	8.44	8.60			
		4	8.72	8.65	8.81			
		5	8.86	8.79	8.95	1.32		
	2	1	8.17	8.08	8.24			
		2	8.58	8.50	8.66			
		3	9.19	9.11	9.27			
		4	9.42	9.33	9.49			
		5	9.60	9.51	9.67	1.30	1.53	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA)

Print Date: 01/10/2011
Lins Ver on 3/13

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>10120102</u>
ELAP ID No: <u>11078</u>	Client ID: <u>LCS-95(LAB CONTROL SPIKE)</u>
LRF Sample ID: <u>LCS-95</u>	Lab Sample ID: <u>AN21692L</u>
Instrument 1 ID: <u>GC21F</u>	Instrument 2 ID: <u>GC21B</u>
Date Analyzed: <u>12/11/2010 1:05:36 AM</u>	Date Analyzed: <u>12/11/2010 1:05:41 AM</u>
GC Column 1: <u>Phenomenex, Zebtron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebtron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21F-1369-17</u>	Lab File ID 2: <u>GC21B-1302-17</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.36	9.52			
		2	NA	10.01	10.17			
		3	NA	10.64	10.80			
		4	NA	10.80	10.96			
		5	NA	11.20	11.36			
	2	1	NA	10.04	10.20			
		2	NA	10.77	10.93			
		3	NA	11.38	11.54			
		4	NA	11.59	11.75			
		5	NA	12.06	12.22			
Aroclor 1254	1	1	NA	11.51	11.67			
		2	NA	12.16	12.32			
		3	NA	12.44	12.60			
		4	NA	13.91	14.07			
		5	NA	14.72	14.88			
	2	1	NA	12.24	12.40			
		2	NA	13.01	13.17			
		3	NA	13.31	13.47			
		4	NA	14.78	14.94			
		5	NA	15.65	15.81			
Aroclor 1260	1	1	NA	14.72	14.88			
		2	NA	16.93	17.09			
		3	NA	17.79	17.95			
		4	NA	18.53	18.69			
		5	NA	20.66	20.82			
	2	1	NA	15.65	15.81			
		2	NA	17.93	18.09			
		3	NA	19.12	19.28			
		4	NA	19.76	19.92			
		5	NA	22.41	22.57			

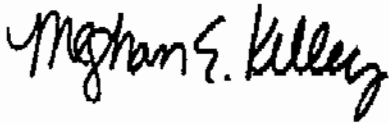
December 21, 2010

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford-Residential
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10L0292

Enclosed are results of analyses for samples received by the laboratory on December 9, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

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

REPORT DATE: 12/21/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10L0292

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-Residential

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-118-7 (6-6.5ft)	10L0292-01	Soil		SM 2540G SW-846 6010B	
SB-118-7 (6.5-7ft)	10L0292-02	Soil		SM 2540G SW-846 6010B	
SB-118-5 (0-1ft)	10L0292-04	Soil		SM 2540G SW-846 6010B SW-846 8270C	
SB-118-6 (6.5-7.5ft)	10L0292-05	Soil		SM 2540G SW-846 6010B	
SB-118-2 (0-1ft)	10L0292-07	Soil		SM 2540G SW-846 6010B SW-846 8270C	
SB-118-1C (0-1ft)	10L0292-08	Soil		SM 2540G SW-846 6010B SW-846 7471B SW-846 8270C	
SB-118-1C (1-3ft)	10L0292-09	Soil		SM 2540G SW-846 6010B	
SB-118-1C (3-4.5ft)	10L0292-10	Soil		SM 2540G SW-846 6010B	
SB-118-1C (5-6ft)	10L0292-11	Soil		SM 2540G SW-846 6010B	
SB-118-1B (0-1ft)	10L0292-13	Soil		SM 2540G SW-846 6010B SW-846 8270C	
SB-118-1B (1-3ft)	10L0292-14	Soil		SM 2540G SW-846 6010B	
SB-118-1B (4-5ft)	10L0292-15	Soil		SM 2540G SW-846 6010B	
SB-118-1A (0-1ft)	10L0292-17	Soil		SM 2540G SW-846 6010B SW-846 8270C	
SB-118-1A (1-3ft)	10L0292-18	Soil		SM 2540G SW-846 6010B SW-846 8270C	
SB-118-1A (3-4ft)	10L0292-19	Soil		SM 2540G SW-846 6010B	
SB-118-1A (6-7ft)	10L0292-20	Soil		SM 2540G SW-846 6010B	

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

REPORT DATE: 12/21/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10L0292

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-Residential

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HF-31-BW (1-3ft)	10L0292-23	Soil		SM 2540G SW-846 1311 SW-846 6010B SW-846 7471B	
Trip Blank	10L0292-24	Trip Blank Soil		SW-846 8260B	

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 As, Ba, Cd, Cr, Pb, Ni and Zn for samples 10L0292-01, 2, 4, 5, 7, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, only RCRA 8 metals for sample 10L0292- 23 and only TCLP lead for sample 10L0292-03 were requested and reported.

For method 8270, only PAH compounds were requested and reported.

SW-846 8260B

Qualifications:

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:

1,2,3-Trichloropropane, tert-Butylbenzene
B023591-BS1, B023591-BSD1

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:

Tetrachloroethylene
10L0292-24[Trip Blank], B023591-BLK1, B023591-BS1, B023591-BSD1

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:

4-Methyl-2-pentanone (MIBK), Acetone
B023591-BSD1, B023591-BS1

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:

2-Hexanone (MBK), Acetone
10L0292-24[Trip Blank], B023591-BLK1, B023591-BS1, B023591-BSD1

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, Tetrahydrofuran
B023591-BS1, B023591-BSD1

SW-846 8270C

Qualifications:

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene
10L0292-18[SB-118-1A (1-3R)], B023655-B51, B023655-BSD1, 10L0292-08[SB-118-1C (0-1R)], 10L0292-04[SB-118-5 (0-1R)], 10L0292-13[SB-118-1B (0-1R)],
10L0292-17[SB-118-1A (0-1R)]

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:

Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene
10L0292-04[SB-118-5 (0-1R)], 10L0292-07[SB-118-2 (0-1R)], 10L0292-13[SB-118-1B (0-1R)], 10L0292-17[SB-118-1A (0-1R)], 10L0292-18[SB-118-1A (1-3R)]

SW-846 8260B

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.



Daren J. Dambotagian
Laboratory Manager

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0292

Date Received: 12/9/2010

Field Sample #: ITF-31-BW (1-30)

Sampled: 12/8/2010 16:20

Sample ID: 10L0292-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:47	OP
Barium	55	2.7	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:47	OP
Cadmium	0.42	0.27	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:47	OP
Chromium	7.6	0.55	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:47	OP
Lead	73	0.82	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:47	OP
Mercury	0.082	0.0085	mg/Kg dry	1		SW-846 7471B	12/14/10	12/14/10 14:06	CWB
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:47	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:47	OP

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0292

Date Received: 12/9/2010

Field Sample #: HF-31-BW (1-30)

Sampled: 12/8/2010 16:20

Sample ID: 10L0292-23

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	12/13/10	12/14/10 9:13	VAF

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0292

Date Received: 12/9/2010

Field Sample #: HF-31-BW (1-30)

Sampled: 12/8/2010 16:20

Sample ID: 10L0292-23

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.15	0.010	mg/L	1		SW-846 6010B	12/14/10	12/14/10 14:23	OP

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0292

Date Received: 12/9/2010

Field Sample #: Trip Blank

Sampled: 12/8/2010 00:00

Sample ID: 10L0292-24

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1	R-05	SW-846 8260B	12/13/10	12/13/10 18:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Bromochloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
n-Butylbenzene	ND	0.0040	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Carbon Tetrachloride	ND	0.0040	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Chlorodibromomethane	ND	0.0040	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Chloroethane	ND	0.010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
cis-1,3-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
trans-1,3-Dichloropropene	ND	0.0040	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Diethyl Ether	ND	0.010	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
Diisopropyl Ether (DIPE)	ND	0.0020	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF
1,4-Dioxane	ND	0.20	mg/Kg wet	1		SW-846 8260B	12/13/10	12/13/10 18:34	MFF

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
13591 - SW-846 5035											
13591-BLK1											
				Prepared & Analyzed: 12/13/10							
	ND	0.10	mg/Kg wet							R-05	
Methyl Ether (TAME)	ND	0.0010	mg/Kg wet								
	ND	0.0020	mg/Kg wet								
zene	ND	0.0020	mg/Kg wet								
romethane	ND	0.0020	mg/Kg wet								
formmethane	ND	0.0020	mg/Kg wet								
n	ND	0.0020	mg/Kg wet								
hane	ND	0.010	mg/Kg wet								
e (MEK)	ND	0.040	mg/Kg wet								
zene	ND	0.0040	mg/Kg wet								
enzene	ND	0.0020	mg/Kg wet								
enzene	ND	0.0020	mg/Kg wet								
Etbyl Ether (TBEE)	ND	0.0020	mg/Kg wet								
sulfide	ND	0.0060	mg/Kg wet								
trachloride	ND	0.0040	mg/Kg wet								
zene	ND	0.0020	mg/Kg wet								
omomethane	ND	0.0040	mg/Kg wet								
ne	ND	0.010	mg/Kg wet								
n	ND	0.0040	mg/Kg wet								
hane	ND	0.010	mg/Kg wet								
luene	ND	0.0020	mg/Kg wet								
luene	ND	0.0020	mg/Kg wet								
no-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet								
noethane (EDB)	ND	0.0010	mg/Kg wet								
ethane	ND	0.0020	mg/Kg wet								
robenzene	ND	0.0020	mg/Kg wet								
robenzene	ND	0.0020	mg/Kg wet								
robenzene	ND	0.0020	mg/Kg wet								
fluoromethane (Freon 12)	ND	0.010	mg/Kg wet								
roethane	ND	0.0020	mg/Kg wet								
roethane	ND	0.0020	mg/Kg wet								
roethylene	ND	0.0040	mg/Kg wet								
hloroethylene	ND	0.0020	mg/Kg wet								
ichloroethylene	ND	0.0020	mg/Kg wet								
ropropane	ND	0.0020	mg/Kg wet								
ropropane	ND	0.0010	mg/Kg wet								
ropropane	ND	0.0020	mg/Kg wet								
ropropene	ND	0.0020	mg/Kg wet								
hloropropene	ND	0.0020	mg/Kg wet								
ichloropropene	ND	0.0040	mg/Kg wet								
ier	ND	0.010	mg/Kg wet								
l Ether (DIPE)	ND	0.0020	mg/Kg wet								
e	ND	0.20	mg/Kg wet								
ne	ND	0.0020	mg/Kg wet								
butadiene	ND	0.0020	mg/Kg wet								
e (MBK)	ND	0.020	mg/Kg wet							R-05	
nzene (Cumene)	ND	0.0040	mg/Kg wet								
toluene (p-Cymene)	ND	0.0020	mg/Kg wet								
-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet								
Chloride	ND	0.010	mg/Kg wet								
-pentanone (MIBK)	ND	0.020	mg/Kg wet								
e	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
Batch B023591 - SW-846 5035										
Blank (B023591-BLK1) Prepared & Analyzed: 12/13/10										
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							L-04
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.010	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.010	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	0.0335		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.4	70-130			
LCS (B023591-BS1) Prepared & Analyzed: 12/13/10										
Acetone	0.588	0.10	mg/Kg wet	0.400		147	40-160			L-14, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
Benzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
Bromobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Bromochloromethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromodichloromethane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130			
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromomethane	0.0223	0.010	mg/Kg wet	0.0200		112	40-160			†
2-Butanone (MEK)	0.404	0.040	mg/Kg wet	0.400		101	40-160			†
n-Butylbenzene	0.0174	0.0040	mg/Kg wet	0.0200		87.0	70-130			
sec-Butylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
tert-Butylbenzene	0.0383	0.0020	mg/Kg wet	0.0200		192	70-130			L-02
tert-Butyl Ethyl Ether (TBEE)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Carbon Disulfide	0.237	0.0060	mg/Kg wet	0.200		118	70-130			
Carbon Tetrachloride	0.0190	0.0040	mg/Kg wet	0.0200		94.9	70-130			
Chlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130			
Chlorodibromomethane	0.0190	0.0040	mg/Kg wet	0.0200		95.1	70-130			
Chloroethane	0.0184	0.010	mg/Kg wet	0.0200		92.1	70-130			
Chloroform	0.0217	0.0040	mg/Kg wet	0.0200		109	70-130			
Chloromethane	0.0216	0.010	mg/Kg wet	0.0200		108	40-160			†
2-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130			
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130			
Dibromomethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,3-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	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
Batch B023591 - SW-846 5035										
LCS (B023591-BS1) Prepared & Analyzed: 12/13/10										
Dichlorodifluoromethane (Freon 12)	0.0183	0.010	mg/Kg wet	0.0200		91.7	40-160			†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
1,2-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,1-Dichloroethylene	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130			
cis-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
trans-1,2-Dichloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dichloropropane	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
1,3-Dichloropropane	0.0183	0.0010	mg/Kg wet	0.0200		91.3	70-130			
2,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1-Dichloropropene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
cis-1,3-Dichloropropene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
trans-1,3-Dichloropropene	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
Diethyl Ether	0.221	0.010	mg/Kg wet	0.200		111	70-130			
Diisopropyl Ether (DIPE)	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dioxane	0.234	0.20	mg/Kg wet	0.200		117	40-160			V-20 †
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
Hexachlorobutadiene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
2-Hexanone (MBK)	0.392	0.020	mg/Kg wet	0.400		98.0	40-160			R-05 †
Isopropylbenzene (Cumene)	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130			
p-Isopropyltoluene (p-Cymene)	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
Methyl tert-Butyl Ether (MTBE)	0.258	0.0040	mg/Kg wet	0.220		117	70-130			
Methylene Chloride	0.0203	0.010	mg/Kg wet	0.0200		101	70-130			
4-Methyl-2-pentanone (MIBK)	0.288	0.020	mg/Kg wet	0.400		72.0	40-160			†
Naphthalene	0.0190	0.010	mg/Kg wet	0.0200		94.8	70-130			
n-Propylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Styrene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,1,1,2-Tetrachloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130			
Tetrachloroethylene	0.0412	0.0020	mg/Kg wet	0.100		41.2	70-130			L-04
Tetrahydrofuran	0.223	0.010	mg/Kg wet	0.200		111	70-130			V-20
Toluene	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130			
1,2,3-Trichlorobenzene	0.0172	0.010	mg/Kg wet	0.0200		86.0	70-130			
1,2,4-Trichlorobenzene	0.0166	0.010	mg/Kg wet	0.0200		83.2	70-130			
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
1,1,2-Trichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			
1,2,3-Trichloropropane	0.0657	0.0020	mg/Kg wet	0.0200		329	70-130			L-02
1,2,4-Trimethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
1,3,5-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
Vinyl Chloride	0.0209	0.010	mg/Kg wet	0.0200		104	70-130			
m+p Xylene	0.0364	0.0040	mg/Kg wet	0.0400		90.9	70-130			
o-Xylene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0507		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
Batch B023591 - SW-846 5035										
LCS Dnp (B023591-BSD1) Prepared & Analyzed: 12/13/10										
Acetone	0.453	0.10	mg/Kg wet	0.400	113	40-160	26.0 *	20	R-05	†
tert-Amyl Methyl Ether (TAME)	0.0215	0.0010	mg/Kg wet	0.0200	107	70-130	1.57	20		
Benzene	0.0204	0.0020	mg/Kg wet	0.0200	102	70-130	2.39	20		
Bromobenzene	0.0192	0.0020	mg/Kg wet	0.0200	95.9	70-130	2.43	20		
Bromochloromethane	0.0195	0.0020	mg/Kg wet	0.0200	97.5	70-130	2.73	20		
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200	95.1	70-130	3.53	20		
Bromoform	0.0200	0.0020	mg/Kg wet	0.0200	100	70-130	7.04	20		
Bromomethane	0.0196	0.010	mg/Kg wet	0.0200	97.8	40-160	13.1	20		†
2-Butanone (MEK)	0.340	0.040	mg/Kg wet	0.400	85.1	40-160	17.1	20		†
n-Butylbenzene	0.0186	0.0040	mg/Kg wet	0.0200	92.9	70-130	6.56	20		
sec-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200	101	70-130	12.9	20		
tert-Butylbenzene	0.0418	0.0020	mg/Kg wet	0.0200	209 *	70-130	8.78	20	L-02	
tert-Butyl Ethyl Ether (TBEE)	0.0209	0.0020	mg/Kg wet	0.0200	105	70-130	2.73	20		
Carbon Disulfide	0.251	0.0060	mg/Kg wet	0.200	125	70-130	5.59	20		
Carbon Tetrachloride	0.0192	0.0040	mg/Kg wet	0.0200	96.1	70-130	1.26	20		
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200	96.5	70-130	5.54	20		
Chlorodibromomethane	0.0186	0.0040	mg/Kg wet	0.0200	93.0	70-130	2.23	20		
Chloroethane	0.0185	0.010	mg/Kg wet	0.0200	92.4	70-130	0.325	20		
Chloroform	0.0206	0.0040	mg/Kg wet	0.0200	103	70-130	5.49	20		
Chloromethane	0.0206	0.010	mg/Kg wet	0.0200	103	40-160	4.73	20		†
2-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200	97.8	70-130	5.57	20		
4-Chlorotoluene	0.0194	0.0020	mg/Kg wet	0.0200	97.1	70-130	1.56	20		
1,2-Dibromo-3-chloropropane (DBCP)	0.0234	0.0020	mg/Kg wet	0.0200	117	70-130	0.513	20		
1,2-Dibromoethane (EDB)	0.0188	0.0010	mg/Kg wet	0.0200	93.8	70-130	3.04	20		
Dibromomethane	0.0194	0.0020	mg/Kg wet	0.0200	96.9	70-130	4.04	20		
1,2-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200	101	70-130	6.13	20		
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200	99.0	70-130	5.71	20		
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200	94.9	70-130	1.15	20		
Dichlorodifluoromethane (Freon 12)	0.0176	0.010	mg/Kg wet	0.0200	87.9	40-160	4.23	20		†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200	95.2	70-130	1.16	20		
1,2-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200	94.8	70-130	0.529	20		
1,1-Dichloroethylene	0.0200	0.0040	mg/Kg wet	0.0200	99.9	70-130	2.37	20		
cis-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200	94.2	70-130	0.318	20		
trans-1,2-Dichloroethylene	0.0222	0.0020	mg/Kg wet	0.0200	111	70-130	2.05	20		
1,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200	92.0	70-130	7.21	20		
1,3-Dichloropropane	0.0182	0.0010	mg/Kg wet	0.0200	91.2	70-130	0.110	20		
2,2-Dichloropropane	0.0228	0.0020	mg/Kg wet	0.0200	114	70-130	3.75	20		
1,1-Dichloropropene	0.0199	0.0020	mg/Kg wet	0.0200	99.7	70-130	3.05	20		
cis-1,3-Dichloropropene	0.0202	0.0020	mg/Kg wet	0.0200	101	70-130	2.91	20		
trans-1,3-Dichloropropene	0.0203	0.0040	mg/Kg wet	0.0200	102	70-130	1.27	20		
Diethyl Ether	0.206	0.010	mg/Kg wet	0.200	103	70-130	6.96	20		
Diisopropyl Ether (DIPE)	0.0195	0.0020	mg/Kg wet	0.0200	97.6	70-130	3.32	20		
1,4-Dioxane	0.230	0.20	mg/Kg wet	0.200	115	40-160	1.58	20	V-20	†
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200	97.0	70-130	5.94	20		
Hexachlorobutadiene	0.0175	0.0020	mg/Kg wet	0.0200	87.5	70-130	1.14	20		
2-Hexanone (MBK)	0.294	0.020	mg/Kg wet	0.400	73.6	40-160	28.5 *	20	R-05	†
Isopropylbenzene (Cumene)	0.0217	0.0040	mg/Kg wet	0.0200	109	70-130	7.64	20		
p-Isopropyltoluene (p-Cymene)	0.0197	0.0020	mg/Kg wet	0.0200	98.5	70-130	6.39	20		
Methyl tert-Butyl Ether (MTBE)	0.233	0.0040	mg/Kg wet	0.220	106	70-130	9.96	20		
Methylene Chloride	0.0198	0.010	mg/Kg wet	0.0200	98.9	70-130	2.50	20		
4-Methyl-2-pentanone (MIBK)	0.246	0.020	mg/Kg wet	0.400	61.4	40-160	15.9	20	L-14	†
Naphthalene	0.0166	0.010	mg/Kg wet	0.0200	83.2	70-130	13.0	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
Batch B023591 - SW-846 5035										
LCS Dup (B023591-BSD1) Prepared & Analyzed: 12/13/10										
n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	5.22	20	
Styrene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	0.209	20	
1,1,1,2-Tetrachloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	0.751	20	
1,1,2,2-Tetrachloroethane	0.0179	0.0010	mg/Kg wet	0.0200		89.6	70-130	6.37	20	
Tetrachloroethylene	0.0380	0.0020	mg/Kg wet	0.100		38.0	70-130	8.02	20	L-04
Tetrahydrofuran	0.208	0.010	mg/Kg wet	0.200		104	70-130	6.70	20	V-20
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	7.77	20	
1,2,3-Trichlorobenzene	0.0154	0.010	mg/Kg wet	0.0200		77.2	70-130	10.8	20	
1,2,4-Trichlorobenzene	0.0154	0.010	mg/Kg wet	0.0200		76.9	70-130	7.87	20	
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.56	20	
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	1.92	20	
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	1.80	20	
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130	1.06	20	
1,2,3-Trichloropropane	0.0631	0.0020	mg/Kg wet	0.0200		315	70-130	4.10	20	L-02
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	9.26	20	
1,3,5-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	5.35	20	
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		95.8	70-130	8.69	20	
m+p Xylene	0.0378	0.0040	mg/Kg wet	0.0400		94.5	70-130	3.88	20	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130	3.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.0482		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023655 - SW-846 3546										
Blank (B023655-BLK1) Prepared: 12/14/10 Analyzed: 12/15/10										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.43		mg/Kg wet	3.33		72.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: Terphenyl-d14	3.37		mg/Kg wet	3.33		101	30-130			
LCS (B023655-BS1) Prepared: 12/14/10 Analyzed: 12/15/10										
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140			
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140			
Anthracene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140			
Benzo(b)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Benzo(g,h,i)perylene	1.55	0.17	mg/Kg wet	1.67		93.0	40-140			V-06
Benzo(k)fluoranthene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140			
Dibenz(a,h)anthracene	1.65	0.17	mg/Kg wet	1.67		98.9	40-140			V-06
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Indeno(1,2,3-cd)pyrene	1.66	0.17	mg/Kg wet	1.67		99.5	40-140			V-06
2-Methylnaphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Naphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140			
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Surrogate: Nitrobenzene-d5	2.32		mg/Kg wet	3.33		69.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.33		78.4	30-130			
Surrogate: Terphenyl-d14	3.25		mg/Kg wet	3.33		97.6	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023655 - SW-846 3546										
LCS Dup (B023655-BSD1) Prepared: 12/14/10 Analyzed: 12/15/10										
Acenaphthene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	11.7	30	
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	12.1	30	
Anthracene	1.25	0.17	mg/Kg wet	1.67		74.7	40-140	12.7	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	11.1	30	
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.5	40-140	9.64	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140	6.45	30	
Benzo(g,h,i)perylene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140	11.1	30	V-06
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	9.00	30	
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.5	40-140	12.9	30	
Dibenz(a,h)anthracene	1.57	0.17	mg/Kg wet	1.67		94.2	40-140	4.85	30	V-06
Fluoranthene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140	29.1	30	
Fluorene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140	11.3	30	
Indeno(1,2,3-cd)pyrene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140	5.94	30	V-06
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	6.27	30	
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140	8.67	30	
Phenanthrene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	11.6	30	
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	19.9	30	
Surrogate: Nitrobenzene-d5	2.45		mg/Kg wet	3.33		73.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.94		mg/Kg wet	3.33		88.1	30-130			
Surrogate: Terphenyl-d14	2.60		mg/Kg wet	3.33		78.1	30-130			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023555 - SW-846 3050B										
Blank (B023555-BLK1)										
Prepared & Analyzed: 12/14/10										
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B023555-BS1)										
Prepared & Analyzed: 12/14/10										
Antimony	105	5.1	mg/Kg wet	103		102	30-203.7			
Arsenic	98.4	5.1	mg/Kg wet	107		91.9	81.6-118.4			
Barium	328	5.1	mg/Kg wet	331		99.0	80.7-119.3			
Beryllium	77.0	0.51	mg/Kg wet	74.1		104	81.6-118.9			
Cadmium	237	0.51	mg/Kg wet	244		97.3	82.4-117.6			
Chromium	80.3	1.0	mg/Kg wet	80.6		99.6	78.8-120.7			
Lead	102	1.5	mg/Kg wet	107		95.2	79.1-120.3			
Nickel	96.9	1.0	mg/Kg wet	96.8		100	81.2-119.2			
Selenium	170	10	mg/Kg wet	177		95.8	78.4-120.9			
Silver	42.2	1.0	mg/Kg wet	46.2		91.4	66.2-133.6			
Thallium	265	5.1	mg/Kg wet	272		97.4	77.6-122.4			
Vanadium	120	2.0	mg/Kg wet	115		104	79.4-120.1			
Zinc	359	2.0	mg/Kg wet	378		95.0	80.5-119.3			
LCS (B023555-BS2)										
Prepared & Analyzed: 12/14/10										
Lead	0.891	0.77	mg/Kg wet	0.765		116	80-120			
LCS Dup (B023555-BSD1)										
Prepared & Analyzed: 12/14/10										
Antimony	101	5.1	mg/Kg wet	103		98.3	30-203.7	4.02	30	
Arsenic	97.2	5.1	mg/Kg wet	107		90.9	81.6-118.4	1.17	30	
Barium	311	5.1	mg/Kg wet	331		93.9	80.7-119.3	5.29	30	
Beryllium	74.8	0.51	mg/Kg wet	74.1		101	81.6-118.9	2.90	30	
Cadmium	242	0.51	mg/Kg wet	244		99.2	82.4-117.6	1.93	30	
Chromium	78.6	1.0	mg/Kg wet	80.6		97.5	78.8-120.7	2.14	30	
Lead	104	1.5	mg/Kg wet	107		96.8	79.1-120.3	1.68	30	
Nickel	97.5	1.0	mg/Kg wet	96.8		101	81.2-119.2	0.614	30	
Selenium	173	10	mg/Kg wet	177		97.9	78.4-120.9	2.10	30	
Silver	39.7	1.0	mg/Kg wet	46.2		86.0	66.2-133.6	6.13	30	
Thallium	263	5.1	mg/Kg wet	272		96.7	77.6-122.4	0.788	30	
Vanadium	117	2.1	mg/Kg wet	115		102	79.4-120.1	2.50	30	
Zinc	349	2.1	mg/Kg wet	378		92.5	80.5-119.3	2.73	30	

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPO	RPD Limit	Notes
Batch B023555 - SW-846 3050B										
Duplicate (B023555-DUP1) Source: 10L0292-07 Prepared & Analyzed: 12/14/10										
Arsenic	ND	3.0	mg/Kg dry		ND			NC	35	
Barium	13.8	3.0	mg/Kg dry		14.9			7.58	35	
Cadmium	ND	0.30	mg/Kg dry		ND			NC	35	
Chromium	11.5	0.60	mg/Kg dry		11.1			4.00	35	
Lead	40.1	0.90	mg/Kg dry		39.4			1.66	35	
Nickel	4.13	0.60	mg/Kg dry		4.05			2.06	35	
Zinc	23.8	1.2	mg/Kg dry		23.7			0.409	35	
Matrix Spike (B023555-MS1) Source: 10L0292-07 Prepared: 12/14/10 Analyzed: 12/15/10										
Arsenic	33.1	3.0	mg/Kg dry	29.9	2.75	102	75-125			
Barium	43.8	3.0	mg/Kg dry	29.9	14.9	96.8	75-125			
Cadmium	30.8	0.30	mg/Kg dry	29.9	0.188	102	75-125			
Chromium	43.0	0.60	mg/Kg dry	29.9	11.1	107	75-125			
Lead	69.4	0.90	mg/Kg dry	29.9	39.4	100	75-125			
Nickel	33.9	0.60	mg/Kg dry	29.9	4.05	100	75-125			
Zinc	56.0	1.2	mg/Kg dry	29.9	23.7	108	75-125			
Batch B023605 - SW-846 7471										
Blank (B023605-BLK1) Prepared & Analyzed: 12/14/10										
Mercury	ND	0.0083	mg/Kg wet							
LCS (B023605-BS1) Prepared & Analyzed: 12/14/10										
Mercury	1.14	0.032	mg/Kg wet	1.25		90.8	66-132			
LCS Dup (B023605-BSD1) Prepared & Analyzed: 12/14/10										
Mercury	1.08	0.031	mg/Kg wet	1.25		86.3	66-132	5.08	30	
Duplicate (B023605-DUP1) Source: 10L0292-08 Prepared & Analyzed: 12/14/10										
Mercury	0.261	0.0095	mg/Kg dry		0.284			8.50	35	
Matrix Spike (B023605-MS1) Source: 10L0292-08 Prepared & Analyzed: 12/14/10										
Mercury	0.502	0.019	mg/Kg dry	0.190	0.284	115	75-125			

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023554 - % Solids										
Duplicate (B023554-DUP3)		Source: 10L0292-02			Prepared: 12/13/10 Analyzed: 12/14/10					
% Solids	83.9		% Wt		86.5			3.05	20	

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.

- 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-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-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant 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 6010B in Soil</i>	
Antimony	CT,NH,NY
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Beryllium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Nickel	CT,NH,NY
Selenium	CT,NH,NY
Silver	CT,NH,NY
Thallium	CT,NH,NY
Vanadium	CT,NH,NY
Zinc	CT,NH,NY
<i>SW-846 6010B in Water</i>	
Lead	NY,CT
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY
<i>SW-846 8260B in Soil</i>	
Acetone	CT,NH,NY,NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC
Bromobenzene	NH,NY,NC
Bromochloromethane	NH,NY,NC
Bromodichloromethane	CT,NH,NY,NC
Bromoform	CT,NH,NY,NC
Bromomethane	CT,NH,NY,NC
2-Butanone (MEK)	CT,NH,NY,NC
n-Butylbenzene	CT,NH,NY,NC
sec-Butylbenzene	CT,NH,NY,NC
tert-Butylbenzene	CT,NH,NY,NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	CT,NH,NY,NC
Carbon Tetrachloride	CT,NH,NY,NC
Chlorobenzene	CT,NH,NY,NC
Chlorodibromomethane	CT,NH,NY,NC
Chloroethane	CT,NH,NY,NC
Chloroform	CT,NH,NY,NC
Chloromethane	CT,NH,NY,NC
2-Chlorotoluene	CT,NH,NY,NC
4-Chlorotoluene	CT,NH,NY,NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC
1,2-Dichlorobenzene	CT,NH,NY,NC
1,3-Dichlorobenzene	CT,NH,NY,NC
1,4-Dichlorobenzene	CT,NH,NY,NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
Dichlorodifluoromethane (Freon 12)	NY,NC
1,1-Dichloroethane	CT,NH,NY,NC
1,2-Dichloroethane	CT,NH,NY,NC
1,1-Dichloroethylene	CT,NH,NY,NC
cis-1,2-Dichloroethylene	CT,NH,NY,NC
trans-1,2-Dichloroethylene	CT,NH,NY,NC
1,2-Dichloropropane	CT,NH,NY,NC
1,3-Dichloropropane	NH,NY,NC
2,2-Dichloropropane	NH,NY,NC
1,1-Dichloropropene	NH,NY,NC
cis-1,3-Dichloropropene	CT,NH,NY,NC
trans-1,3-Dichloropropene	CT,NH,NY,NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC
Hexachlorobutadiene	NH,NY,NC
2-Hexanone (MBK)	CT,NH,NY,NC
Isopropylbenzene (Cumene)	CT,NH,NY,NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,NH,NY,NC
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC
n-Propylbenzene	NC
Styrene	CT,NH,NY,NC
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC
Tetrachloroethylene	CT,NH,NY,NC
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NH,NY,NC
1,1,1-Trichloroethane	CT,NH,NY,NC
1,1,2-Trichloroethane	CT,NH,NY,NC
Trichloroethylene	CT,NH,NY,NC
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC
1,2,3-Trichloropropane	NH,NY,NC
1,2,4-Trimethylbenzene	CT,NH,NY,NC
1,3,5-Trimethylbenzene	CT,NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC
m+p Xylene	CT,NH,NY,NC
o-Xylene	CT,NH,NY,NC
<i>SIV-846 8270C in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270C In Soil</i>	
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
Naphthalene	CT,NY,NH
Phenanthrene	CT,NY,NH
Pyrene	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TRC
 Address: 1050 SUFFOLK ST
LOWELL MA 01854

Telephone: (478) 970 5000
 Project # 115058
 Client PO # 29386

Attention: DAVID SULLIVAN

Project Location: New Bedford - Residential

Sampled By: J. Grandy

Proposal Provided? (For Billing purposes)
 yes no

State Form Required?
 yes no

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: dsullivan@trcsolutions.com
 Format: EXCEL PDF GIS KEY

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Code	Conc. Code	Matrix Code	Conc. Code
SB-118-7 (6-6.3)		-01	12/8/10 1030	1035			X	S	U	
SB-118-7 (6.5-7)		-02		1035						
SB-118-7 (12-13)	(HOLD)	-03		1036						
SB-118-5 (10-1)		-04		1100						
SB-118-6 (6.5-7.5)		-05		1140						
SB-118-6 (9.5-10.5)	(HOLD)	-06		1145						
SB-118-2 (10-1)		-07		1200						
SB-118-19 (10-1)		-08	12/8/10	1230						

12-09-10 16:01 IN

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

Relinquished by: (signature) [Signature] Date/Time: 12/9/10 1610
 Received by: (signature) [Signature] Date/Time: 12/9 10 10
 Relinquished by: (signature) [Signature] Date/Time: 12/9 15 30
 Specified by: (signature) [Signature] Date/Time: 12/9/10 1530

Turnaround **
 7-Day
 10-Day
 Other 5-D
 RUSH!
 *24-Hr *48-Hr
 *72-Hr *4-Day
 *Require lab approval

Detection Limit Requirements
 Regulations? MCP 5-1
 Data Enhancement Project/RCP? Y N
 Special Requirements or DL's: _____

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

**Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 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 INCOMPLETE TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR OFFICE.



Phone: 413-625-2332
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 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TRC
 Address: 1050 SUFFOLK ST
LOWELL MA 01854
 Attention: DAVID SULLIVAN

Telephone: 978 970 5000
 Project #: 115058
 Client PO #: 29386

Project Location: New Bedford Residential
 Sampled By: J. Gray

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: ksullivan@trcsolutions.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes)
 yes no proposal date _____

State Form Required?
 yes no

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix Code	Conc. Code	ANALYSIS REQUESTED
5B-118-1C (1-3)		09	12/8/10	12:35	X		S	0	MCP METALS + Hg
5B-118-1C (3-4-5)		10		12:40					PATIS
5B-118-1C (5-6)		11		12:45					METALS (As, Ba, Cd, Cr, Pb, Ni, Zn)
5B-118-1C (9-10)	(Hold)	12		12:50					
5B-118-1B (0-1)		13		13:15					
5B-118-1B (1-3)		14		13:20					
5B-118-1B (4-5)		15		13:25					
5B-118-1B (8-9)	(Hold)	16	12/8/10	13:30					

Laboratory Comments: 12-09-10 16:01 IN

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

Requisitioned by: (signature) _____ Date/Time: 12/9/10 10:10

Received by: (signature) _____ Date/Time: 12/9 10:10

Requisitioned by: (signature) _____ Date/Time: 12/9 15:30

Received by: (signature) _____ Date/Time: 12/9/10 15:30

Turnaround **
 7-Day
 10-Day
 Other: 5-D **FUSH**
 24-Hr 48-Hr
 72-Hr 4-Day

Detection Limit Requirements: MCP S-1

Special Requirements or DLS: _____

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

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

** 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. AIHA, NELAC & WBEDEE Certified

Meghan Kelley

From: Saunders, Jeffry (Lowell,MA-US) [JSaunders@trcsolutions.com]
Sent: Tuesday, December 14, 2010 10:00 AM
To: Meghan Kelley
Cc: Sullivan, Dave (Lowell,MA-US); Grundy, James (Lowell,MA-US); Drouin, Allison (Lowell,MA-US); Jordan, Kevin (Lowell,MA-US)
Subject: New Bedford Samples

Meghan,

A few minor tweaks to the analyses for two soil samples that came in last week...

- Please add PAHs to the analyses for sample SB-108-7 (0-1) collected on 12/10/2010.
- Please add PAHs to the analyses for sample SB-118-1A (1-3) collected 12/8/2010.

Please let me know if you have any questions or concerns. Thanks!

-Jeff

Jeffry B. Saunders
Project Geologist



TRC Companies, Inc.
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

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(978) 453-1995 (fax)
jsaunders@trcsolutions.com

Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: TEC DATE: 12/9/10

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 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 5.0°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where: 19

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>5</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>21</u>	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	<u>6</u>	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-Con Test Container	
Flashpoint bottle		Other	
Encore		FM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments: 12-09-10 16:01 IN

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water 4
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

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

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

Meghan Kelley

From: Saunders, Jeffrey (Lowell,MA-US) [JSaunders@trcsolutions.com]
Sent: Wednesday, December 15, 2010 1:31 PM
To: Meghan Kelley
Cc: Sullivan, Dave (Lowell,MA-US); Peterson, David N. (Lowell,MA-US)
Subject: RE: Sample HF-31-DS

Meghan,

Please split off the HF-31-DS sample. Everything else sounds great.

-Jeff

From: Meghan Kelley [mailto:mkelley@contestlabs.com]
Sent: Wednesday, December 15, 2010 1:31 PM
To: Saunders, Jeffrey (Lowell,MA-US)
Cc: Sullivan, Dave (Lowell,MA-US); Peterson, David N. (Lowell,MA-US)
Subject: RE: Sample HF-31-DS

Hi Jeff,

The herbicide analysis is already on its own work order, you will receive all the other analysis for "HF-31-DS" along with the other samples tomorrow. The herbicide is the only analysis on its own work order with a 10 day TAT. I can still split off "HF-31-DS" onto its own work order if you would like.

-Meghan

From: Saunders, Jeffrey (Lowell,MA-US) [mailto:JSaunders@trcsolutions.com]
Sent: Wednesday, December 15, 2010 1:20 PM
To: Meghan Kelley
Cc: Sullivan, Dave (Lowell,MA-US); Peterson, David N. (Lowell,MA-US)
Subject: Sample HF-31-DS

Meghan,

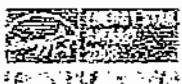
If possible, can you report the results for sample "HF-31-DS" collected on December 8th, 2010 separate from the other samples on the chain-of-custody (see attached)?

Also, can you send along the metals results that are on a 5-day turnaround when they available, rather than waiting for the herbicides necessary to issue the final report? This will help with our determination of any required TCLP analyses.

Thanks.

-Jeff

Jeffrey B. Saunders
Project Geologist



TRC Companies, Inc.
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

(978) 656-3610 (phone)
(978) 453-1995 (fax)
jsaunders@trcsolutions.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 10L0292
Project Location: New Bedford-Residential	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
10L0292-01 thru 10L0292-24

Matrices: **Soil**

CAM Protocol (check all that below)

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

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status


G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

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

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

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

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

Signature: _____ 	Position: Laboratory Manager
Printed Name: Daren J. Damboragian	Date: 12/21/10

APPENDIX F

Laboratory Data Packages – Soil Disposal Characterization Sampling

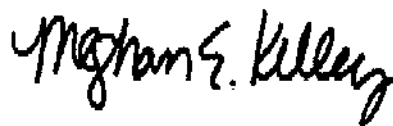
December 20, 2010

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford-Residential
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10L0446

Enclosed are results of analyses for samples received by the laboratory on December 9, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



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

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

REPORT DATE: 12/20/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10L0446

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-Residential

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HF-31-DS	10L0446-01	Soil		SM 2540G SW-846 1010 SW-846 1030 SW-846 6010B SW-846 7471B SW-846 8081A SW-846 8082 SW-846 8260B SW-846 8270C SW-846 9014 SW-846 9030A SW-846 9045D	

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 method 8081, for sample 10L0446-01, elevated detection limits due to matrix interference. Chromatogram is attached.

SW-846 8260B

Qualifications:

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:

1,2,3-Trichloropropane, tert-Butylbenzene
B023746-BS1, B023746-BSD1

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:

Tetrachloroethylene
10L0446-01[HF-31-DS], B023746-BLK1, B023746-BS1, B023746-BSD1

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:

4-Methyl-2-pentanone (MIBK), Acetone
B023746-BSD1, B023746-BS1

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:

2-Hexanone (MBK), Acetone
10L0446-01[HF-31-DS], B023746-BLK1, B023746-BS1, B023746-BSD1

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, Tetrahydrofuran
B023746-BS1, B023746-BSD1

SW-846 8270C

Qualifications:

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:

Bis(2-chloroisopropyl)ether
10L0446-01[HF-31-DS], B023503-BLK1, B023503-BS1, B023503-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, Bis(2-chloroisopropyl)ether
10L0446-01[HF-31-DS], B023503-BLK1, B023503-BS1, B023503-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 2-Methylphenol, Bis(2-chloroisopropyl)ether, Isophorone, Pentachlorophenol
B023503-BLK1, B023503-BS1, B023503-BSD1, 10L0446-01[HF-31-DS]

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene
10L0446-01[HF-31-DS], B023503-B51, B023503-B5D1

SW-846 9045D

Qualifications:

Sample received after recommended holding time was exceeded.

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

10L0446-01[HF-31-DS]

SW-846 8260B

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.

SW-846 8270C

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

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.



Michael A. Erickson
Laboratory Director

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: IIF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.079	mg/Kg dry	1	R-05	SW-846 8260B	12/13/10	12/13/10 18:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Bromomethane	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
n-Butylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Carbon Tetrachloride	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Chlorodibromomethane	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Chloroethane	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Chloromethane	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2-Dibromoethane (EDB)	ND	0.00079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,3-Dichloropropane	ND	0.00079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
cis-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Diethyl Ether	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Diisopropyl Ether (DIPE)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,4-Dioxane	ND	0.16	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: HF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1	R-05	SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Isopropylbenzene (Cumene)	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Methylene Chloride	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Naphthalene	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.00079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1	L-04	SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Tetrahydrofuran	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2,3-Trichlorobenzene	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2,4-Trichlorobenzene	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Trichloromethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Vinyl Chloride	ND	0.0079	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	12/13/10	12/13/10 18:08	MFF
Surrogates		% Recovery	Recovery Limits		Flag				
1,2-Dichloroethane-d4		105	70-130				12/13/10	18:08	
Toluene-d8		95.5	70-130				12/13/10	18:08	
4-Bromofluorobenzene		101	70-130				12/13/10	18:08	

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: IIF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Anthracene	0.18	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Benzo(a)anthracene	0.61	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Benzo(a)pyrene	0.58	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Benzo(b)fluoranthene	0.62	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Benzo(g,h,i)perylene	0.42	0.18	mg/Kg dry	1	V-06	SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Benzo(k)fluoranthene	0.23	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	L-04, V-05	SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Butylbenzylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Chrysene	0.65	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1	V-06	SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Dimethylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-04	SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Di-n-octylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Indeno(1,2,3-cd)pyrene	0.54	0.18	mg/Kg dry	1	V-06	SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: HF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270C	12/10/10	12/15/10 17:25	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Phenanthrene	1.0	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
Pyrene	1.2	0.18	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/10/10	12/15/10 17:25	BGL

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	79.3	30-130	
Phenol-d6	84.3	30-130	
Nitrobenzene-d5	62.4	30-130	
2-Fluorobiphenyl	66.9	30-130	
2,4,6-Tribromophenol	93.6	30-130	
Terphenyl-d14	79.1	30-130	

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: HF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
alpha-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
beta-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
delta-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
gamma-BHC (Lindane) [1]	ND	0.021	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Chlordane [1]	ND	0.21	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
4,4'-DDD [1]	ND	0.043	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
4,4'-DDE [1]	ND	0.043	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
4,4'-DDT [1]	ND	0.043	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Dieldrin [1]	ND	0.043	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Endosulfan I [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Endosulfan II [1]	ND	0.085	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Endosulfan sulfate [1]	ND	0.085	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Endrin [1]	ND	0.085	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Endrin ketone [1]	ND	0.085	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Heptachlor [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Heptachlor epoxide [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Hexachlorobenzene [1]	ND	0.053	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG
Methoxychlor [1]	ND	0.53	mg/Kg dry	10		SW-846 8081A	12/14/10	12/15/10 11:31	PJG

Surrogates	% Recovery	Recovery Limits	Flag
Decachlorobiphenyl [1]	121	30-150	12/15/10 11:31
Decachlorobiphenyl [2]	123	30-150	12/15/10 11:31
Tetrachloro-m-xylene [1]	101	30-150	12/15/10 11:31
Tetrachloro-m-xylene [2]	108	30-150	12/15/10 11:31

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: IIF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1254 [2]	1.5	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082	12/10/10	12/13/10 16:45	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	95.1		30-150			12/13/10 16:45			
Decachlorobiphenyl [2]	122		30-150			12/13/10 16:45			
Tetrachloro-m-xylene [1]	100		30-150			12/13/10 16:45			
Tetrachloro-m-xylene [2]	110		30-150			12/13/10 16:45			

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: HF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:43	OP
Barium	100	2.8	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:43	OP
Cadmium	0.67	0.28	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:43	OP
Chromium	19	0.56	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:43	OP
Lead	190	0.84	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:43	OP
Mercury	0.090	0.0042	mg/Kg dry	1		SW-846 7471B	12/14/10	12/14/10 14:00	CWB
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:43	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010B	12/14/10	12/14/10 16:43	OP

Project Location: New Bedford-Residential

Sample Description:

Work Order: 10L0446

Date Received: 12/9/2010

Field Sample #: HF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0446-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Detection	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F			SW-846 1010	12/13/10	12/15/10 15:00	AED
Ignitability	Absent		present/absent			SW-846 1030	12/10/10	12/10/10 13:45	LL
pH @17°C	6.2		pH Units		H-03	SW-846 9045D	12/10/10	12/10/10 14:30	LL
Reactive Cyanide	ND	4.0	mg/Kg			SW-846 9014	12/10/10	12/10/10 15:30	SBP
Reactive Sulfide	ND	20	mg/Kg			SW-846 9030A	12/10/10	12/10/10 14:00	SBP
% Solids	92.8		% Wt			SM 2540G	12/15/10	12/15/10 16:22	YAF

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10L0446-01 [HF-31-DS]	B023740	12/13/10

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023726	50.0	50.0	12/13/10

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023700	50.0	50.0	12/10/10

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023555	0.966	50.0	12/14/10

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023605	0.642	25.0	12/14/10

Prep Method: SW-846 3546-SW-846 8081A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023628	10.1	10.0	12/14/10

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023502	10.1	50.0	12/10/10

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023746	6.80	10.0	12/13/10

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023503	30.0	1.00	12/10/10

Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023708	25.3	250	12/10/10

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023714	25.3	250	12/10/10

SW-846 9045D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0446-01 [HF-31-DS]	B023704	20.0		12/10/10

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023746 - 5W-846 5035										
Blank (B023746-BLKI)					Prepared & Analyzed: 12/13/10					
Acetone	ND	0.10	mg/Kg wet							R-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	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0040	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	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0040	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0040	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							
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	0.0020	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0040	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0020	mg/Kg wet							
1,4-Dioxane	ND	0.20	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							R-05
Isopropylbenzene (Cumene)	ND	0.0040	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
Batch B023746 - SW-846 5035										
Blank (B023746-BLK1) Prepared & Analyzed: 12/13/10										
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	NO	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							L-04
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.010	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.010	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	0.0535		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.4	70-130			
LCS (B023746-BS1) Prepared & Analyzed: 12/13/10										
Acetone	0.588	0.10	mg/Kg wet	0.400		147	40-160			L-14, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
Benzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
Bromobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Bromochloromethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromodichloromethane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130			
Bromofom	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromomethane	0.0223	0.010	mg/Kg wet	0.0200		112	40-160			†
2-Butanone (MEK)	0.404	0.040	mg/Kg wet	0.400		101	40-160			†
n-Butylbenzene	0.0174	0.0040	mg/Kg wet	0.0200		87.0	70-130			
sec-Butylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
tert-Butylbenzene	0.0383	0.0020	mg/Kg wet	0.0200		192 *	70-130			L-02
tert-Butyl Ethyl Ether (TBEE)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Carbon Disulfide	0.237	0.0060	mg/Kg wet	0.200		118	70-130			
Carbon Tetrachloride	0.0190	0.0040	mg/Kg wet	0.0200		94.9	70-130			
Chlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130			
Chlorodibromomethane	0.0190	0.0040	mg/Kg wet	0.0200		95.1	70-130			
Chloroethane	0.0184	0.010	mg/Kg wet	0.0200		92.1	70-130			
Chloroform	0.0217	0.0040	mg/Kg wet	0.0200		109	70-130			
Chloromethane	0.0216	0.010	mg/Kg wet	0.0200		108	40-160			†
2-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130			
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130			
Dibromomethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,3-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	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
Batch B023746 - SW-846 5035										
LCS (B023746-BS1) Prepared & Analyzed: 12/13/10										
Dichlorodifluoromethane (Freon 12)	0.0183	0.010	mg/Kg wet	0.0200		91.7	40-160			†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
1,2-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,1-Dichloroethylene	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130			
cis-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
trans-1,2-Dichloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dichloropropane	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
1,3-Dichloropropane	0.0183	0.0010	mg/Kg wet	0.0200		91.3	70-130			
2,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1-Dichloropropene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
cis-1,3-Dichloropropene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
trans-1,3-Dichloropropene	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
Diethyl Ether	0.221	0.010	mg/Kg wet	0.200		111	70-130			
Diisopropyl Ether (DIPE)	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dioxane	0.234	0.20	mg/Kg wet	0.200		117	40-160			V-20 †
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
Hexachlorobutadiene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
2-Hexanone (MBK)	0.392	0.020	mg/Kg wet	0.400		98.0	40-160			R-05 †
Isopropylbenzene (Cumene)	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130			
p-Isopropyltoluene (p-Cymene)	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
Methyl tert-Butyl Ether (MTBE)	0.258	0.0040	mg/Kg wet	0.220		117	70-130			
Methylene Chloride	0.0203	0.010	mg/Kg wet	0.0200		101	70-130			
4-Methyl-2-pentanone (MTBK)	0.288	0.020	mg/Kg wet	0.400		72.0	40-160			†
Naphthalene	0.0190	0.010	mg/Kg wet	0.0200		94.8	70-130			
n-Propylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Styrene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,1,1,2-Tetrachloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130			
Tetrachloroethylene	0.0412	0.0020	mg/Kg wet	0.100		41.2	70-130			L-04
Tetrahydrofuran	0.223	0.010	mg/Kg wet	0.200		111	70-130			V-20
Toluene	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130			
1,2,3-Trichlorobenzene	0.0172	0.010	mg/Kg wet	0.0200		86.0	70-130			
1,2,4-Trichlorobenzene	0.0166	0.010	mg/Kg wet	0.0200		83.2	70-130			
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
1,1,2-Trichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			
1,2,3-Trichloropropane	0.0657	0.0020	mg/Kg wet	0.0200		329	70-130			L-02
1,2,4-Trimethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
1,3,5-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
Vinyl Chloride	0.0209	0.010	mg/Kg wet	0.0200		104	70-130			
m+p Xylene	0.0364	0.0040	mg/Kg wet	0.0400		90.9	70-130			
o-Xylene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0507		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
Batch B023746 - SW-846 5035										
LCS Dup (B023746-BSD1) Prepared & Analyzed: 12/13/10										
Acetone	0.453	0.10	mg/Kg wet	0.400		113	40-160	26.0 *	20	R-05 †
tert-Amyl Methyl Ether (TAME)	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	1.57	20	
Benzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.39	20	
Bromobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	2.43	20	
Bromochloromethane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	2.73	20	
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	3.53	20	
Bromoform	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	7.04	20	
Bromomethane	0.0196	0.010	mg/Kg wet	0.0200		97.8	40-160	13.1	20	†
2-Butanone (MEK)	0.340	0.040	mg/Kg wet	0.400		85.1	40-160	17.1	20	†
n-Butylbenzene	0.0186	0.0040	mg/Kg wet	0.0200		92.9	70-130	6.56	20	
sec-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	12.9	20	
tert-Butylbenzene	0.0418	0.0020	mg/Kg wet	0.0200		209 *	70-130	8.78	20	L-02
tert-Butyl Ethyl Ether (TBEE)	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	2.73	20	
Carbon Disulfide	0.251	0.0060	mg/Kg wet	0.200		125	70-130	5.59	20	
Carbon Tetrachloride	0.0192	0.0040	mg/Kg wet	0.0200		96.1	70-130	1.26	20	
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	5.54	20	
Chlorodibromomethane	0.0186	0.0040	mg/Kg wet	0.0200		93.0	70-130	2.23	20	
Chloroethane	0.0185	0.010	mg/Kg wet	0.0200		92.4	70-130	0.325	20	
Chloroform	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130	5.49	20	
Chloromethane	0.0206	0.010	mg/Kg wet	0.0200		103	40-160	4.73	20	†
2-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	5.57	20	
4-Chlorotoluene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	1.56	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	0.513	20	
1,2-Dibromoethane (EDB)	0.0188	0.0010	mg/Kg wet	0.0200		93.8	70-130	3.04	20	
Dibromomethane	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	4.04	20	
1,2-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	6.13	20	
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	5.71	20	
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	1.15	20	
Dichlorodifluoromethane (Freon 12)	0.0176	0.010	mg/Kg wet	0.0200		87.9	40-160	4.23	20	†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	1.16	20	
1,2-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.529	20	
1,1-Dichloroethylene	0.0200	0.0040	mg/Kg wet	0.0200		99.9	70-130	2.37	20	
cis-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	0.318	20	
trans-1,2-Dichloroethylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	2.05	20	
1,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130	7.21	20	
1,3-Dichloropropane	0.0182	0.0010	mg/Kg wet	0.0200		91.2	70-130	0.110	20	
2,2-Dichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	3.75	20	
1,1-Dichloropropene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	3.05	20	
cis-1,3-Dichloropropene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.91	20	
trans-1,3-Dichloropropene	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130	1.27	20	
Diethyl Ether	0.206	0.010	mg/Kg wet	0.200		103	70-130	6.96	20	
Diisopropyl Ether (DIPE)	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	3.32	20	
1,4-Dioxane	0.230	0.20	mg/Kg wet	0.200		115	40-160	1.58	20	V-20 †
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	5.94	20	
Hexachlorobutadiene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130	1.14	20	
2-Hexanone (MBK)	0.294	0.020	mg/Kg wet	0.400		73.6	40-160	28.5 *	20	R-05 †
Isopropylbenzene (Cumene)	0.0217	0.0040	mg/Kg wet	0.0200		109	70-130	7.64	20	
p-Isopropyltoluene (p-Cymene)	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	6.39	20	
Methyl tert-Butyl Ether (MTBE)	0.233	0.0040	mg/Kg wet	0.220		106	70-130	9.96	20	
Methylene Chloride	0.0198	0.010	mg/Kg wet	0.0200		98.9	70-130	2.50	20	
4-Methyl-2-pentanone (MIBK)	0.246	0.020	mg/Kg wet	0.400		61.4	40-160	15.9	20	L-14 †
Naphthalene	0.0166	0.010	mg/Kg wet	0.0200		83.2	70-130	13.0	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
Batch B023746 - SW-846 5035										
LCS Dup (B023746-BSD1) Prepared & Analyzed: 12/13/10										
n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	5.22	20	
Styrene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	0.209	20	
1,1,1,2-Tetrachloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	0.751	20	
1,1,2,2-Tetrachloroethane	0.0179	0.0010	mg/Kg wet	0.0200		89.6	70-130	6.37	20	
Tetrachloroethylene	0.0380	0.0020	mg/Kg wet	0.100		38.0	70-130	8.02	20	L-04
Tetrahydrofuran	0.208	0.010	mg/Kg wet	0.200		104	70-130	6.70	20	V-20
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	7.77	20	
1,2,3-Trichlorobenzene	0.0154	0.010	mg/Kg wet	0.0200		77.2	70-130	10.8	20	
1,2,4-Trichlorobenzene	0.0154	0.010	mg/Kg wet	0.0200		76.9	70-130	7.87	20	
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.56	20	
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	1.92	20	
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	1.80	20	
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130	1.06	20	
1,2,3-Trichloropropane	0.0631	0.0020	mg/Kg wet	0.0200		315	70-130	4.10	20	L-02
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	9.26	20	
1,3,5-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	5.35	20	
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		95.8	70-130	8.69	20	
m+p Xylene	0.0378	0.0040	mg/Kg wet	0.0400		94.5	70-130	3.88	20	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130	3.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.0482		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023503 - SW-846 3546										
Blank (B023503-BLK1) Prepared: 12/10/10 Analyzed: 12/11/10										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							L-04, V-04, V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.66	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-04, V-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							V-05
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023503 - SW-846 3546										
Blank (B023503-BLK1) Prepared: 12/10/10 Analyzed: 12/11/10										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.23		mg/Kg wet	6.67		63.4	30-130			
Surrogate: Phenol-d6	4.21		mg/Kg wet	6.67		63.1	30-130			
Surrogate: Nitrobenzene-d5	1.68		mg/Kg wet	3.33		50.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.02		mg/Kg wet	3.33		60.5	30-130			
Surrogate: 2,4,6-Tribromophenol	5.11		mg/Kg wet	6.67		76.7	30-130			
Surrogate: Terphenyl-d14	2.27		mg/Kg wet	3.33		68.0	30-130			
LCS (B023503-BS1) Prepared: 12/10/10 Analyzed: 12/11/10										
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Acetophenone	0.647	0.34	mg/Kg wet	0.833		77.6	40-140			
Aniline	0.718	0.34	mg/Kg wet	1.67		43.1	40-140			
Anthracene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Benzo(a)anthracene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140			
Benzo(g,h,i)perylene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140			
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		75.2	40-140			
Bis(2-chloroethyl)ether	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
Bis(2-chloroisopropyl)ether	0.436	0.34	mg/Kg wet	1.67		26.2	40-140			L-04, V-04, V-05
Bis(2-Ethylhexyl)phthalate	1.34	0.34	mg/Kg wet	1.67		80.6	40-140			
4-Bromophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.5	40-140			
Butylbenzylphthalate	1.30	0.66	mg/Kg wet	1.67		78.0	40-140			
4-Chloroaniline	0.771	0.66	mg/Kg wet	1.67		46.2	15-140			†
2-Chloronaphthalene	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.67		78.4	30-130			
Chrysene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Dibenz(a,b)anthracene	1.42	0.17	mg/Kg wet	1.67		85.5	40-140			V-06
Dibenzofuran	1.40	0.34	mg/Kg wet	1.67		83.8	40-140			
Di-n-butylphthalate	1.33	0.34	mg/Kg wet	1.67		79.6	40-140			
1,2-Dichlorobenzene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140			
1,3-Dichlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.1	40-140			
1,4-Dichlorobenzene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140			
3,3-Dichlorobenzidine	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
2,4-Dichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.0	30-130			
Diethylphthalate	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
2,4-Dimethylphenol	1.30	0.34	mg/Kg wet	1.67		77.8	30-130			
Dimethylphthalate	1.43	0.66	mg/Kg wet	1.67		85.8	40-140			
2,4-Dinitrophenol	0.880	0.66	mg/Kg wet	1.67		52.8	15-140			V-04, V-05 †
2,4-Dinitrotoluene	1.50	0.34	mg/Kg wet	1.67		90.0	40-140			
2,6-Dinitrotoluene	1.49	0.34	mg/Kg wet	1.67		89.2	40-140			
Di-n-octylphthalate	1.35	0.66	mg/Kg wet	1.67		81.0	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.09	0.34	mg/Kg wet	1.67		65.2	40-140			
Fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140			
Fluorene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
Hexachlorobenzene	1.45	0.34	mg/Kg wet	1.67		86.9	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023503 - SW-846 3546										
LCS (B023503-BS1) Prepared: 12/10/10 Analyzed: 12/11/10										
Hexachlorobutadiene	1.25	0.34	mg/Kg wet	1.67		75.0	40-140			
Hexachloromethane	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
Indeno(1,2,3-cd)pyrene	1.44	0.17	mg/Kg wet	1.67		86.5	40-140			V-06
Isophorone	1.16	0.34	mg/Kg wet	1.67		69.4	40-140			V-05
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
2-Methylphenol	1.30	0.34	mg/Kg wet	1.67		77.7	30-130			
3/4-Methylphenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130			
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140			
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.7	40-140			
2-Nitrophenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130			
4-Nitrophenol	1.31	0.66	mg/Kg wet	1.67		78.6	15-140			†
Pentachlorophenol	0.623	0.34	mg/Kg wet	1.67		37.4	30-130			
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			
Phenol	1.32	0.34	mg/Kg wet	1.67		79.4	15-140			†
Pyrene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
1,2,4-Trichlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.9	40-140			
2,4,5-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		88.9	30-130			
2,4,6-Trichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.6	30-130			
Surrogate: 2-Fluorophenol	4.91		mg/Kg wet	6.67		73.6	30-130			
Surrogate: Phenol-d6	5.01		mg/Kg wet	6.67		75.2	30-130			
Surrogate: Nitrobenzene-d5	2.26		mg/Kg wet	3.33		67.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.48		mg/Kg wet	3.33		74.3	30-130			
Surrogate: 2,4,6-Tribromophenol	7.24		mg/Kg wet	6.67		109	30-130			
Surrogate: Terphenyl-d14	2.54		mg/Kg wet	3.33		76.1	30-130			
LCS Dup (B023503-BS1) Prepared: 12/10/10 Analyzed: 12/11/10										
Acenaphthene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	1.42	30	
Acenaphthylene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	1.08	30	
Acetophenone	0.610	0.34	mg/Kg wet	0.833		73.2	40-140	5.78	30	
Aniline	0.696	0.34	mg/Kg wet	1.67		41.7	40-140	3.16	30	
Anthracene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	2.51	30	
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	3.27	30	
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	3.85	30	
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	2.73	30	
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		75.9	40-140	2.03	30	
Benzo(k)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	3.74	30	
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	1.14	30	
Bis(2-chloroethyl)ether	1.31	0.34	mg/Kg wet	1.67		78.4	40-140	5.53	30	
Bis(2-chloroisopropyl)ether	0.443	0.34	mg/Kg wet	1.67		26.6 *	40-140	1.59	30	L-04, V-04, V-05
Bis(2-Ethylhexyl)phthalate	1.43	0.34	mg/Kg wet	1.67		86.0	40-140	6.58	30	
4-Bromophenylphenylether	1.46	0.34	mg/Kg wet	1.67		87.6	40-140	2.38	30	
Butylbenzylphthalate	1.39	0.66	mg/Kg wet	1.67		83.7	40-140	7.03	30	
4-Chloroaniline	0.681	0.66	mg/Kg wet	1.67		40.8	15-140	12.4	30	†
2-Chloronaphthalene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	3.86	30	
2-Chlorophenol	1.36	0.34	mg/Kg wet	1.67		81.4	30-130	3.73	30	
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	2.60	30	
Dibenz(a,h)anthracene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140	1.26	30	V-06
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	1.61	30	
Di-n-butylphthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140	9.34	30	
1,2-Dichlorobenzene	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	3.62	30	
1,3-Dichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.9	40-140	3.71	30	
1,4-Dichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.8	40-140	2.67	30	

QUALITY CONTROL

Semivolatle Organic Compounds by GC/MS - Quality Control

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023503 - SW-846 3546										
LCS Dup (B023503-BSD1) Prepared: 12/10/10 Analyzed: 12/11/10										
3,3-Dichlorobenzidine	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	0.220	30	
2,4-Dichlorophenol	1.44	0.34	mg/Kg wet	1.67		86.4	30-130	0.669	30	
Diethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	3.60	30	
2,4-Dimethylphenol	1.27	0.34	mg/Kg wet	1.67		76.5	30-130	1.71	30	
Dimethylphthalate	1.44	0.66	mg/Kg wet	1.67		86.5	40-140	0.813	30	
2,4-Dinitrophenol	0.898	0.66	mg/Kg wet	1.67		53.9	15-140	2.06	30	V-04, V-05 †
2,4-Dinitrotoluene	1.45	0.34	mg/Kg wet	1.67		87.3	40-140	3.02	30	
2,6-Dinitrotoluene	1.50	0.34	mg/Kg wet	1.67		89.7	40-140	0.604	30	
Di-n-octylphthalate	1.45	0.66	mg/Kg wet	1.67		86.8	40-140	6.89	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.12	0.34	mg/Kg wet	1.67		67.4	40-140	3.23	30	
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	12.8	30	
Fluorene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	0.796	30	
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.3	40-140	1.67	30	
Hexachlorobutadiene	1.30	0.34	mg/Kg wet	1.67		78.0	40-140	3.84	30	
Hexachloroethane	1.29	0.34	mg/Kg wet	1.67		77.5	40-140	2.61	30	
Indeno(1,2,3-cd)pyrene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140	0.626	30	V-06
Isophorone	1.16	0.34	mg/Kg wet	1.67		69.6	40-140	0.259	30	V-05
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	1.23	30	
2-Methylphenol	1.37	0.34	mg/Kg wet	1.67		82.2	30-130	5.55	30	
3/4-Methylphenol	1.33	0.34	mg/Kg wet	1.67		79.8	30-130	2.47	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	1.79	30	
Nitrobenzene	1.07	0.34	mg/Kg wet	1.67		64.4	40-140	0.558	30	
2-Nitrophenol	1.40	0.34	mg/Kg wet	1.67		83.9	30-130	2.49	30	
4-Nitrophenol	1.34	0.66	mg/Kg wet	1.67		80.2	15-140	1.99	30	†
Pentachlorophenol	0.666	0.34	mg/Kg wet	1.67		40.0	30-130	6.73	30	
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	2.17	30	
Phenol	1.31	0.34	mg/Kg wet	1.67		78.7	15-140	0.835	30	†
Pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	0.399	30	
1,2,4-Trichlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.2	40-140	2.78	30	
2,4,5-Trichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.1	30-130	2.02	30	
2,4,6-Trichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.2	30-130	0.715	30	
Surrogate: 2-Fluorophenol	5.15		mg/Kg wet	6.67		77.2	30-130			
Surrogate: Phenol-d6	5.04		mg/Kg wet	6.67		75.6	30-130			
Surrogate: Nitrobenzene-d5	2.25		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.64		mg/Kg wet	3.33		79.2	30-130			
Surrogate: 2,4,6-Tribromophenol	7.10		mg/Kg wet	6.67		107	30-130			
Surrogate: Terphenyl-d14	2.68		mg/Kg wet	3.33		80.5	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023628 - SW-846 3546										
Blank (B023628-BLK1) Prepared: 12/14/10 Analyzed: 12/15/10										
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.217		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg wet	0.200		113	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Batch B023628 - SW-846 3546									
LCS (B023628-BS1)					Prepared: 12/14/10 Analyzed: 12/15/10				
Aldrin	0.022	0.0050	mg/Kg wet	0.0200		111 40-140			
Aldrin [2C]	0.017	0.0050	mg/Kg wet	0.0200		86.4 40-140			
alpha-BHC	0.021	0.0050	mg/Kg wet	0.0200		107 40-140			
alpha-BHC [2C]	0.024	0.0050	mg/Kg wet	0.0200		118 40-140			
beta-BHC	0.021	0.0050	mg/Kg wet	0.0200		103 40-140			
beta-BHC [2C]	0.022	0.0050	mg/Kg wet	0.0200		110 40-140			
delta-BHC	0.021	0.0050	mg/Kg wet	0.0200		103 40-140			
delta-BHC [2C]	0.022	0.0050	mg/Kg wet	0.0200		111 40-140			
gamma-BHC (Lindane)	0.021	0.0020	mg/Kg wet	0.0200		107 40-140			
gamma-BHC (Lindane) [2C]	0.023	0.0020	mg/Kg wet	0.0200		117 40-140			
4,4'-DDD	0.023	0.0040	mg/Kg wet	0.0200		116 40-140			
4,4'-DDD [2C]	0.023	0.0040	mg/Kg wet	0.0200		115 40-140			
4,4'-DDE	0.022	0.0040	mg/Kg wet	0.0200		112 40-140			
4,4'-DDE [2C]	0.023	0.0040	mg/Kg wet	0.0200		115 40-140			
4,4'-DDT	0.023	0.0040	mg/Kg wet	0.0200		116 40-140			
4,4'-DDT [2C]	0.020	0.0040	mg/Kg wet	0.0200		98.1 40-140			
Dieldrin	0.019	0.0040	mg/Kg wet	0.0200		96.2 40-140			
Dieldrin [2C]	0.024	0.0040	mg/Kg wet	0.0200		118 40-140			
Endosulfan I	0.022	0.0050	mg/Kg wet	0.0200		112 40-140			
Endosulfan I [2C]	0.014	0.0050	mg/Kg wet	0.0200		70.4 40-140			
Endosulfan II	0.023	0.0080	mg/Kg wet	0.0200		115 40-140			
Endosulfan II [2C]	0.023	0.0080	mg/Kg wet	0.0200		117 40-140			
Endosulfan Sulfate	0.023	0.0080	mg/Kg wet	0.0200		116 40-140			
Endosulfan Sulfate [2C]	0.022	0.0080	mg/Kg wet	0.0200		112 40-140			
Endrin	0.022	0.0080	mg/Kg wet	0.0200		112 40-140			
Endrin [2C]	0.024	0.0080	mg/Kg wet	0.0200		118 40-140			
Endrin Ketone	0.025	0.0080	mg/Kg wet	0.0200		127 40-140			
Endrin Ketone [2C]	0.022	0.0080	mg/Kg wet	0.0200		112 40-140			
Heptachlor	0.022	0.0050	mg/Kg wet	0.0200		112 40-140			
Heptachlor [2C]	0.023	0.0050	mg/Kg wet	0.0200		116 40-140			
Heptachlor Epoxide	0.021	0.0050	mg/Kg wet	0.0200		107 40-140			
Heptachlor Epoxide [2C]	0.023	0.0050	mg/Kg wet	0.0200		116 40-140			
Hexachlorobenzene	0.020	0.0050	mg/Kg wet	0.0200		101 40-140			
Hexachlorobenzene [2C]	0.021	0.0050	mg/Kg wet	0.0200		106 40-140			
Methoxychlor	0.023	0.050	mg/Kg wet	0.0200		115 40-140			
Methoxychlor [2C]	0.024	0.050	mg/Kg wet	0.0200		121 40-140			
Surrogate: Decachlorobiphenyl	0.207		mg/Kg wet	0.200		103 30-150			
Surrogate: Decachlorobiphenyl [2C]	0.224		mg/Kg wet	0.200		112 30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		93.1 30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.219		mg/Kg wet	0.200		110 30-150			
LCS Dup (B023628-BS1)					Prepared: 12/14/10 Analyzed: 12/15/10				
Aldrin	0.023	0.0050	mg/Kg wet	0.0200		116 40-140	4.22	30	
Aldrin [2C]	0.019	0.0050	mg/Kg wet	0.0200		93.5 40-140	7.88	30	
alpha-BHC	0.023	0.0050	mg/Kg wet	0.0200		113 40-140	5.87	30	
alpha-BHC [2C]	0.025	0.0050	mg/Kg wet	0.0200		123 40-140	3.90	30	
beta-BHC	0.022	0.0050	mg/Kg wet	0.0200		109 40-140	5.32	30	
beta-BHC [2C]	0.023	0.0050	mg/Kg wet	0.0200		115 40-140	5.10	30	
delta-BHC	0.022	0.0050	mg/Kg wet	0.0200		108 40-140	4.96	30	
delta-BHC [2C]	0.023	0.0050	mg/Kg wet	0.0200		117 40-140	4.93	30	
gamma-BHC (Lindane)	0.023	0.0020	mg/Kg wet	0.0200		113 40-140	5.69	30	
gamma-BHC (Lindane) [2C]	0.025	0.0020	mg/Kg wet	0.0200		124 40-140	5.21	30	

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023628 - SW-846 3546										
LCS Dup (B023628-BSD1) Prepared: 12/14/10 Analyzed: 12/15/10										
4,4'-DDD	0.024	0.0040	mg/Kg wet	0.0200		120	40-140	3.55	30	
4,4'-DDD [2C]	0.024	0.0040	mg/Kg wet	0.0200		122	40-140	6.03	30	
4,4'-DDE	0.024	0.0040	mg/Kg wet	0.0200		118	40-140	5.54	30	
4,4'-DDE [2C]	0.024	0.0040	mg/Kg wet	0.0200		121	40-140	5.44	30	
4,4'-DDT	0.022	0.0040	mg/Kg wet	0.0200		112	40-140	4.16	30	
4,4'-DDT [2C]	0.021	0.0040	mg/Kg wet	0.0200		107	40-140	8.26	30	
Dieldrin	0.021	0.0040	mg/Kg wet	0.0200		103	40-140	7.31	30	
Dieldrin [2C]	0.025	0.0040	mg/Kg wet	0.0200		125	40-140	5.46	30	
Endosulfan I	0.023	0.0050	mg/Kg wet	0.0200		117	40-140	5.02	30	
Endosulfan I [2C]	0.015	0.0050	mg/Kg wet	0.0200		76.2	40-140	7.88	30	
Endosulfan II	0.023	0.0080	mg/Kg wet	0.0200		117	40-140	1.53	30	
Endosulfan II [2C]	0.025	0.0080	mg/Kg wet	0.0200		124	40-140	5.63	30	
Endosulfan Sulfate	0.023	0.0080	mg/Kg wet	0.0200		114	40-140	1.22	30	
Endosulfan Sulfate [2C]	0.024	0.0080	mg/Kg wet	0.0200		118	40-140	5.98	30	
Endrin	0.023	0.0080	mg/Kg wet	0.0200		116	40-140	3.22	30	
Endrin [2C]	0.025	0.0080	mg/Kg wet	0.0200		124	40-140	5.55	30	
Endrin Ketone	0.025	0.0080	mg/Kg wet	0.0200		126	40-140	0.793	30	
Endrin Ketone [2C]	0.024	0.0080	mg/Kg wet	0.0200		122	40-140	7.96	30	
Heptachlor	0.023	0.0050	mg/Kg wet	0.0200		117	40-140	4.70	30	
Heptachlor [2C]	0.024	0.0050	mg/Kg wet	0.0200		122	40-140	4.56	30	
Heptachlor Epoxide	0.023	0.0050	mg/Kg wet	0.0200		113	40-140	5.39	30	
Heptachlor Epoxide [2C]	0.024	0.0050	mg/Kg wet	0.0200		122	40-140	4.69	30	
Hexachlorobenzene	0.022	0.0050	mg/Kg wet	0.0200		108	40-140	6.28	30	
Hexachlorobenzene [2C]	0.022	0.0050	mg/Kg wet	0.0200		112	40-140	5.74	30	
Methoxychlor	0.027	0.050	mg/Kg wet	0.0200		134	40-140	15.3	30	
Methoxychlor [2C]	0.026	0.050	mg/Kg wet	0.0200		128	40-140	5.55	30	
Surrogate: Decachlorobiphenyl	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.231		mg/Kg wet	0.200		115	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		96.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.225		mg/Kg wet	0.200		113	30-150			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023502 - SW-846 3546										
Blank (B023502-BLK1)										
Prepared: 12/10/10 Analyzed: 12/13/10										
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.246		mg/Kg wet	0.200		123	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.256		mg/Kg wet	0.200		128	30-150			
Surrogate: Tetrachloro-m-xylene	0.245		mg/Kg wet	0.200		123	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.258		mg/Kg wet	0.200		129	30-150			
LCS (B023502-BS1)										
Prepared: 12/10/10 Analyzed: 12/13/10										
Aroclor-1016	0.24	0.10	mg/Kg wet	0.200		122	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg wet	0.200		126	40-140			
Aroclor-1260	0.25	0.10	mg/Kg wet	0.200		124	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg wet	0.200		125	40-140			
Surrogate: Decachlorobiphenyl	0.247		mg/Kg wet	0.200		123	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.257		mg/Kg wet	0.200		129	30-150			
Surrogate: Tetrachloro-m-xylene	0.255		mg/Kg wet	0.200		127	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.267		mg/Kg wet	0.200		133	30-150			
LCS Dup (B023502-BSD1)										
Prepared: 12/10/10 Analyzed: 12/13/10										
Aroclor-1016	0.25	0.10	mg/Kg wet	0.200		123	40-140	0.731	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg wet	0.200		126	40-140	0.386	30	
Aroclor-1260	0.25	0.10	mg/Kg wet	0.200		127	40-140	2.85	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg wet	0.200		126	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	0.251		mg/Kg wet	0.200		126	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.260		mg/Kg wet	0.200		130	30-150			
Surrogate: Tetrachloro-m-xylene	0.243		mg/Kg wet	0.200		122	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.253		mg/Kg wet	0.200		127	30-150			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023555 - SW-846 3050B										
Blank (B023555-BLK1) Prepared & Analyzed: 12/14/10										
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B023555-BS1) Prepared & Analyzed: 12/14/10										
Arsenic	98.4	5.1	mg/Kg wet	107		91.9	81.6-118.4			
Barium	328	5.1	mg/Kg wet	331		99.0	80.7-119.3			
Cadmium	237	0.51	mg/Kg wet	244		97.3	82.4-117.6			
Chromium	80.3	1.0	mg/Kg wet	80.6		99.6	78.8-120.7			
Lead	102	1.5	mg/Kg wet	107		95.2	79.1-120.3			
Selenium	170	10	mg/Kg wet	177		95.8	78.4-120.9			
Silver	42.2	1.0	mg/Kg wet	46.2		91.4	66.2-133.6			
LCS (B023555-BS2) Prepared & Analyzed: 12/14/10										
Lead	0.891	0.77	mg/Kg wet	0.765		116	80-120			
LCS Dup (B023555-BSD1) Prepared & Analyzed: 12/14/10										
Arsenic	97.2	5.1	mg/Kg wet	107		90.9	81.6-118.4	1.17	30	
Barium	311	5.1	mg/Kg wet	331		93.9	80.7-119.3	5.29	30	
Cadmium	242	0.51	mg/Kg wet	244		99.2	82.4-117.6	1.93	30	
Chromium	78.6	1.0	mg/Kg wet	80.6		97.5	78.8-120.7	2.14	30	
Lead	104	1.5	mg/Kg wet	107		96.8	79.1-120.3	1.68	30	
Selenium	173	10	mg/Kg wet	177		97.9	78.4-120.9	2.10	30	
Silver	39.7	1.0	mg/Kg wet	46.2		86.0	66.2-133.6	6.13	30	
Batch B023605 - SW-846 7471										
Blank (B023605-BLK1) Prepared & Analyzed: 12/14/10										
Mercury	ND	0.0083	mg/Kg wet							
LCS (B023605-BS1) Prepared & Analyzed: 12/14/10										
Mercury	1.14	0.032	mg/Kg wet	1.25		90.8	66-132			
LCS Dup (B023605-BSD1) Prepared & Analyzed: 12/14/10										
Mercury	1.08	0.031	mg/Kg wet	1.25		86.3	66-132	5.08	30	

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 B023708 - SW-846 9014										
Blank (B023708-BLK1) Prepared & Analyzed: 12/10/10										
Reactive Cyanide	ND	4.0	mg/Kg							
Batch B023714 - SW-846 9030A										
Blank (B023714-BLK1) Prepared & Analyzed: 12/10/10										
Reactive Sulfide	ND	20	mg/Kg							
Batch B023726 - SW-846 1010										
Blank (B023726-BLK1) Prepared: 12/13/10 Analyzed: 12/15/10										
Flashpoint	> 212 °F		°F							
LCS (B023726-BS1) Prepared: 12/13/10 Analyzed: 12/15/10										
Flashpoint	81		°F	81.0		100	98.8-101			
LCS Dup (B023726-BSD1) Prepared: 12/13/10 Analyzed: 12/15/10										
Flashpoint	81		°F	81.0		100	98.8-101	0.00		

BREAKDOWN REPORT

Lab Sample ID: S000561-PEM1 **Analyzed:** 12/15/2010

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.61
Endrin [1]	1.80

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.00
Endrin [2]	1.82

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.
- H-03 Sample received after recommended holding time was exceeded.
 - 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-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-04 Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.
 - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant 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 1010 in Soil</i>	
Flashpoint	NY,NC
<i>SW-846 1030 in Soil</i>	
Ignitability	NY,NH,CT,NC
<i>SW-846 6010B in Soil</i>	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY
<i>SW-846 8081A in Soil</i>	
Aldrin	CT,NC,NH,NY
Aldrin [2C]	CT,NC,NH,NY
alpha-BHC	CT,NC,NH,NY
alpha-BHC [2C]	CT,NC,NH,NY
beta-BHC	CT,NC,NH,NY
beta-BHC [2C]	CT,NC,NH,NY
delta-BHC	CT,NC,NH,NY
delta-BHC [2C]	CT,NC,NH,NY
gamma-BHC (Lindane)	CT,NC,NH,NY
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY
Chlordane	CT,NC,NH,NY
Chlordane [2C]	CT,NC,NH,NY
4,4'-DDD	CT,NC,NH,NY
4,4'-DDD [2C]	CT,NC,NH,NY
4,4'-DDE	CT,NC,NH,NY
4,4'-DDE [2C]	CT,NC,NH,NY
4,4'-DDT	CT,NC,NH,NY
4,4'-DDT [2C]	CT,NC,NH,NY
Dieldrin	CT,NC,NH,NY
Dieldrin [2C]	CT,NC,NH,NY
Endosulfan I	CT,NC,NH,NY
Endosulfan I [2C]	CT,NC,NH,NY
Endosulfan II	CT,NC,NH,NY
Endosulfan II [2C]	CT,NC,NH,NY
Endosulfan Sulfate	CT,NC,NH,NY
Endosulfan Sulfate [2C]	CT,NC,NH,NY
Endrin	CT,NC,NH,NY
Endrin [2C]	CT,NC,NH,NY
Heptachlor	CT,NC,NH,NY
Heptachlor [2C]	CT,NC,NH,NY
Heptachlor Epoxide	CT,NC,NH,NY

CERTIFICATIONS

Certified Analyses Included In this Report

Analyte	Certifications
<i>SW-846 8081A in Soil</i>	
Heptachlor Epoxide [2C]	CT,NC,NH,NY
Hexachlorobenzene	NH
Hexachlorobenzene [2C]	NH
Methoxychlor	CT,NC,NH,NY
Methoxychlor [2C]	CT,NC,NH,NY
<i>SW-846 8082 in Soil</i>	
Aroclor-1016	CT,NH,NY,NC
Aroclor-1016 [2C]	CT,NH,NY,NC
Aroclor-1221	CT,NH,NY,NC
Aroclor-1221 [2C]	CT,NH,NY,NC
Aroclor-1232	CT,NH,NY,NC
Aroclor-1232 [2C]	CT,NH,NY,NC
Aroclor-1242	CT,NH,NY,NC
Aroclor-1242 [2C]	CT,NH,NY,NC
Aroclor-1248	CT,NH,NY,NC
Aroclor-1248 [2C]	CT,NH,NY,NC
Aroclor-1254	CT,NH,NY,NC
Aroclor-1254 [2C]	CT,NH,NY,NC
Aroclor-1260	CT,NH,NY,NC
Aroclor-1260 [2C]	CT,NH,NY,NC
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8260B in Soil</i>	
Acetone	CT,NH,NY,NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC
Bromobenzene	NH,NY,NC
Bromochloromethane	NH,NY,NC
Bromodichloromethane	CT,NH,NY,NC
Bromoform	CT,NH,NY,NC
Bromomethane	CT,NH,NY,NC
2-Butanone (MEK)	CT,NH,NY,NC
n-Butylbenzene	CT,NH,NY,NC
sec-Butylbenzene	CT,NH,NY,NC
tert-Butylbenzene	CT,NH,NY,NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	CT,NH,NY,NC
Carbon Tetrachloride	CT,NH,NY,NC
Chlorobenzene	CT,NH,NY,NC
Chlorodibromomethane	CT,NH,NY,NC
Chloroethane	CT,NH,NY,NC
Chloroform	CT,NH,NY,NC
Chloromethane	CT,NH,NY,NC
2-Chlorotoluene	CT,NH,NY,NC

CERTIFICATIONS

Certified Analyses Included in this Report

Analyte	Certifications
<i>SW-846 8260B In Soil</i>	
4-Chloroluene	CT,NH,NY,NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC
1,2-Dichlorobenzene	CT,NH,NY,NC
1,3-Dichlorobenzene	CT,NH,NY,NC
1,4-Dichlorobenzene	CT,NH,NY,NC
Ochlorodifluoromethane (Freon 12)	NY,NC
1,1-Dichloroethane	CT,NH,NY,NC
1,2-Dichloroethane	CT,NH,NY,NC
1,1-Dichloroethylene	CT,NH,NY,NC
cis-1,2-Dichloroethylene	CT,NH,NY,NC
trans-1,2-Dichloroethylene	CT,NH,NY,NC
1,2-Dichloropropane	CT,NH,NY,NC
1,3-Dichloropropane	NH,NY,NC
2,2-Dichloropropane	NH,NY,NC
1,1-Dichloropropene	NH,NY,NC
cis-1,3-Dichloropropene	CT,NH,NY,NC
trans-1,3-Dichloropropene	CT,NH,NY,NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC
Hexachlorobutadiene	NH,NY,NC
2-Hexanone (MBK)	CT,NH,NY,NC
Isopropylbenzene (Cumene)	CT,NH,NY,NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,NH,NY,NC
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC
n-Propylbenzene	NC
Styrene	CT,NH,NY,NC
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC
Tetrachloroethylene	CT,NH,NY,NC
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NH,NY,NC
1,1,1-Trichloroethane	CT,NH,NY,NC
1,1,2-Trichloroethane	CT,NH,NY,NC
Trichloroethylene	CT,NH,NY,NC
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC
1,2,3-Trichloropropane	NH,NY,NC
1,2,4-Trimethylbenzene	CT,NH,NY,NC
1,3,5-Trimethylbenzene	CT,NH,NY,NC

CERTIFICATIONS

Certified Analyses Included In this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
Vinyl Chloride	CT,NH,NY,NC
m+p Xylene	CT,NH,NY,NC
o-Xylene	CT,NH,NY,NC
<i>SW-846 8270C in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3'-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH

CERTIFICATIONS

Certified Analyses Included In this Report

Analyte	Certifications
<i>SW-846 8270C in Soil</i>	
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

SW-846 9014 in Soil

Reactive Cyanide	NY,CT,NH
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SW-846 9030A in Soil

Reactive Sulfide	CT,NY,NH
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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LA000112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



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 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: FRC
 Address: 150 SOUTH ST
LOWELL MA 01854

Telephone: 978 972 5000
 Project # 115058
 Client PO # 29386

Attention: DAVID COLLINSON
 Project Location: NEW Bedford-Residential
 Sampled By: J. Grandy

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #:
 Email: dcollinson@frcsolutions.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes)
 yes no proposal date
 State Farm Required?
 yes no

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp. osile	Grab	Matrix Code	Conc. Code	ANALYSIS REQUESTED	# of Containers
SB-118-1A (0-1')		-17	12/10	1345	X		S	U	PCRA Metals PCB Metals +Hg PAHS Metals (As, Ba, Cd, Cr, Pb, Ni, Zn) PCBs SVOCs VOCs Pesticides & Herbicides Ignitability/Flashpoint Corrosivity/pH Reactive Sulfide & reactive Cyanide TCLP Pb	1
SB-118-1A (1-3')		-18		1350						1
SB-118-1A (3-4')		-19		1355						1
SB-118-1A (6-7')		-20		1406						1
SB-118-1A (9-10') (HOLD)		-21		1405						1
HF-31-05		-22		1500						1
HF-31-BW (1-3')		-23		12/8/10						1
Top Blank		-24								1

Laboratory Comments:
 12-09-10 16:01 IN
 Per Attached email split sample HF-31-D5 into 2 samples

Relinquished by: (signature) [Signature] Date/Time: 12/10/10 10:10
 Received by: (signature) [Signature] Date/Time: 12/9/10 10:10
 Requesting by: (signature) [Signature] Date/Time: 12/9/10 15:30
 Reviewed by: (signature) [Signature] Date/Time: 12/9/10 15:30

Turnaround **
 7-Day
 10-Day
 Rush
 * Require lab approval

Detection Limit Requirements
 Regulations? WQS 5-1
 Data Enhancement Project/RCF? Y N
 Special Requirements or DL's:
 *Matrix Codes:
 GW= groundwater
 WW= wastewater
 DW= drinking water
 A= air
 S= soil/solid
 SL= sludge
 O= other
 **Preservation Codes:
 I= food
 H= HCL
 N= Methanol
 S= Sulfuric Acid
 B= Sodium bisulfate
 O= Other

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.
 AIHA, NELAP & WBE/DBE Certified



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CHAIN OF CUSTODY RECORD
 1060002-1060446

39 SPRUCE ST. 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TBC
 Address: 1050 Simek St
Lowell MA 01854
 Attention: David Sullivan

Telephone: (978) 970 5700
 Project # 115058
 Client PO # 29386

Project Location: New Bedford-Residential
 Sampled By: T. Grady

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Email: dsullivan@conestlabs.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes)
 Yes No proposal date

State Form Required?
 Yes No

Field ID	Sample Description	Lab #	Date Sampled		Comp- osite	Grab	Matrix Conc.		ANALYSIS REQUESTED	# of containers
			Start Date/Time	Stop Date/Time			Code 1	Code 2		
SB-118-7 (6-6-5)		-01	12/8/10	10:20		X	S	U	MCP Metals + Hg PAHs Metals (As, Ba, Cd, Cr, Pb, Zn, Ni)	
SB-118-7 (6-5-7)		-02		10:35						
SB-118-7 (12-12)	(Hold)	-03		10:50						
SB-118-5 (10-1)		-04		11:00						
SB-118-6 (6-5-7-5)		-05		11:15						
SB-118-6 (10-5-10-5)	(Hold)	-06		11:45						
SB-118-2 (10-1)		-07		12:00						
SB-118-19 (10-1)		-08		12:30						

12-09-10 16:01 IN

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

Relinquished by: (signature) [Signature] Date/Time: 12/9/10 10:10

Received by: (signature) [Signature] Date/Time: 12/9/10 10:10

Relinquished by: (signature) [Signature] Date/Time: 12/9/10 15:30

Received by: (signature) [Signature] Date/Time: 12/9/10 15:30

Temperature: 5.2 C

Turnaround **
 7-Day
 10-Day
 Other 5-D
 *24-Hr *48-Hr
 *72-Hr *4-Day

Detection Limit Requirements
 Regulations? MCP 5-1
 Data Enhancement Project/RCP? Y N
 Special Requirements or D.L's: _____

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

**Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

Matrix Conc. Code:
 S = Solid
 L = Liquid
 G = Gas

Container Code:
 G = glass
 P = plastic
 S = stainless
 V = vial
 S = sealed can
 T = under bag
 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.



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 Fax: 413-525-5405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

10L0297

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Page 2 of 3

Company Name: TBC
 Address: 1050 SHERBORN ST
LOWELL MA 01854
 Attention: DAVID SULLIVAN

Telephone: 978 970 5000
 Project #: 115058
 Client PO #: 29386

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: David.Sullivan@TBCsolutions.com
 Format: EXCEL PDF GIS KEY

Project Location: New Bedford-Residential
 Sampled By: J Gray

Proposal Provider? (For Billing purposes)
 yes no
 State Form Required?
 yes no

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix Code	Cont. Code	Client	Comments:
5B-118-1C (1-3)		09	12/8/10	1235			X	5	0	
5B-118-1C (3-4-5)		10		1240			X	1	1	
5B-118-1C (5-6)		11		1245			X	1	1	
5B-118-1C (9-10)		12		1250			X	1	1	
5B-118-1B (0-1)		13		1315			X	1	1	
5B-118-1B (1-3)		14		1320			X	1	1	
5B-118-1B (4-5)		15		1325			X	1	1	
5B-118-1B (8-9)		16		1330			X	1	1	

Laboratory Comments: 12-09-10 16:01 IN

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

Highlighed by: (signature) _____ Date/Time: 12/10/10 10:10
 Received by: (signature) _____ Date/Time: 12/9/10 15:30
 Rehighlighted by: (signature) _____ Date/Time: 12/9/10 15:30
 Recycled by: (signature) _____ Date/Time: 12/9/10 15:30

Turnaround **
 7-Day
 10-Day
 Other: 1D
 RUSH *

Detection Limit Requirements
 Regulations? MCP 5-1
 Data Enhancement Project/RCP? XY N
 Special Requirements or DLs: _____

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

Preservation Codes:
 I = Iodide
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

** TURNDOWN 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, TURNDOWN TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified



Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: TEC DATE: 12/9/10

1) Was the chain(s) of custody relinquished and signed? Yes No

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 5.0°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where: 19

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>5</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>21</u>	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	<u>6</u>	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments: 12-09-10 16:01 IN

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water 4
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

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

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

Meghan Kelley

From: Saunders, Jeffry (Lowell,MA-US) [JSaunders@trcsolutions.com]
Sent: Wednesday, December 15, 2010 1:31 PM
To: Meghan Kelley
Cc: Sullivan, Dave (Lowell,MA-US); Peterson, David N. (Lowell,MA-US)
Subject: RE: Sample HF-31-DS

Meghan,

Please split off the HF-31-DS sample. Everything else sounds great.

-Jeff

From: Meghan Kelley [mailto:mkelley@contestlabs.com]
Sent: Wednesday, December 15, 2010 1:31 PM
To: Saunders, Jeffry (Lowell,MA-US)
Cc: Sullivan, Dave (Lowell,MA-US); Peterson, David N. (Lowell,MA-US)
Subject: RE: Sample HF-31-DS

Hi Jeff,

The herbicide analysis is already on its own work order, you will receive all the other analysis for "HF-31-DS" along with the other samples tomorrow. The herbicide is the only analysis on its own work order with a 10 day TAT. I can still split off "HF-31-DS" onto its own work order if you would like.

-Meghan

From: Saunders, Jeffry (Lowell,MA-US) [mailto:JSaunders@trcsolutions.com]
Sent: Wednesday, December 15, 2010 1:20 PM
To: Meghan Kelley
Cc: Sullivan, Dave (Lowell,MA-US); Peterson, David N. (Lowell,MA-US)
Subject: Sample HF-31-DS

Meghan,

If possible, can you report the results for sample "HF-31-DS" collected on December 8th, 2010 separate from the other samples on the chain-of-custody (see attached)?

Also, can you send along the metals results that are on a 5-day turnaround when they available, rather than waiting for the herbicides necessary to issue the final report? This will help with our determination of any required TCLP analyses.

Thanks.

-Jeff

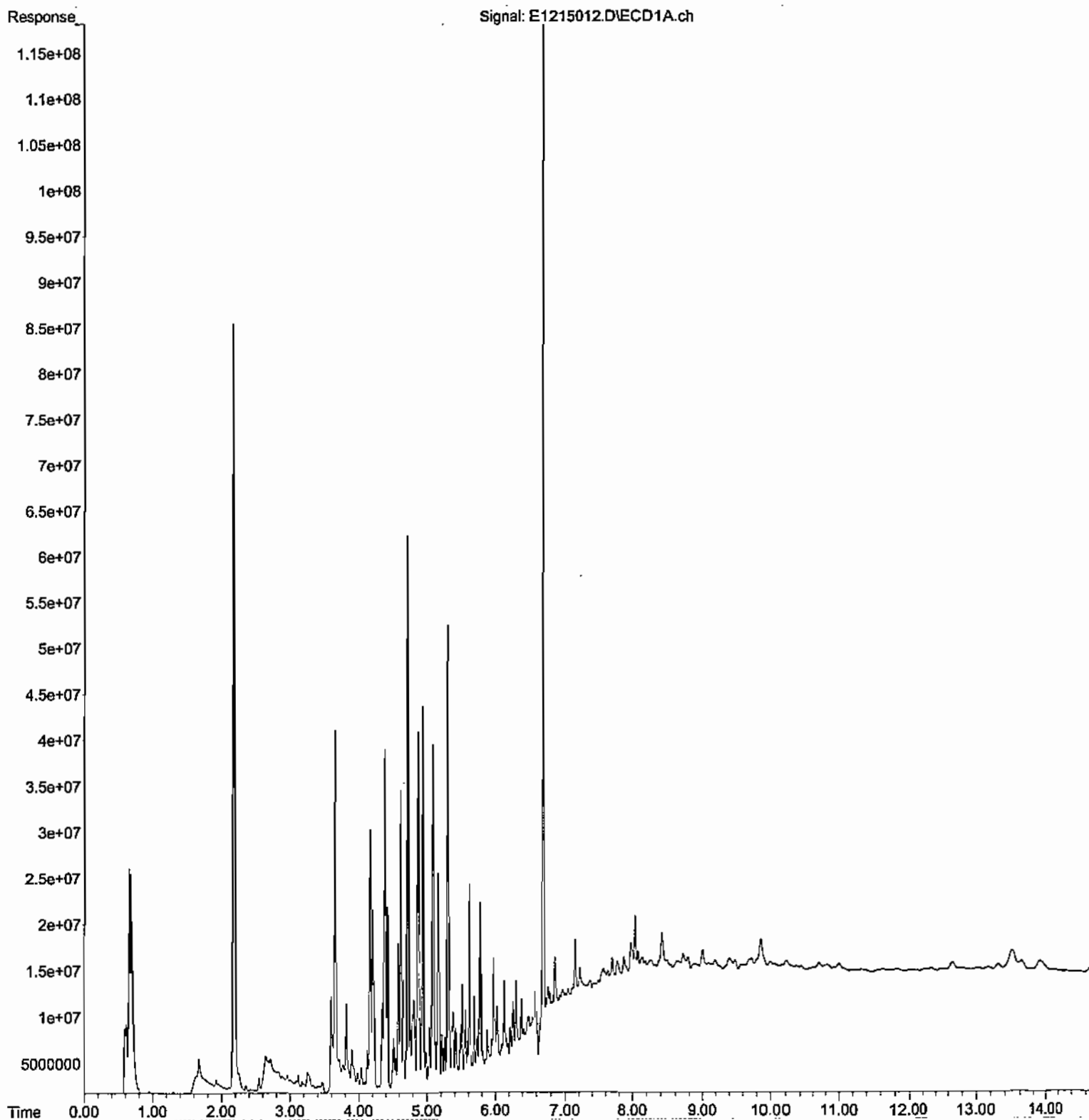
Jeffrey B. Saunders
Project Geologist



TRC Companies, Inc.
Wannalancil Mills
650 Suffolk Street
Lowell, MA 01854

(978) 656-3610 (phone)
(978) 453-1995 (fax)
jsaunders@trcsolutions.com

File :C:\msdchem\1\DATA\121510\E1215012.D
Operator : JMB
Acquired : 15 Dec 2010 11:31 am using AcqMethod NEWPEST.M
Instrument : ECD 5
Sample Name: 10L0446-01@10X
Misc Info :
Vial Number: 12



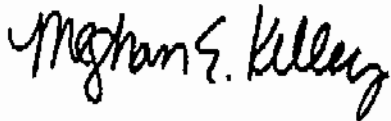
December 28, 2010

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford - Residential
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10L0434

Enclosed are results of analyses for samples received by the laboratory on December 14, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



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

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

REPORT DATE: 12/28/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10L0434

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 - Residential

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HF-31-DS	10L0434-01	Soil		SM 2540G SW-846 8151	

CASE NARRATIVE SUMMARY

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

For 8151A: Dichloroprop in initial calibration verification (ICV) is >120%. Any result for this compound estimated.

For 8151A: Methylation performed 12/20/10 05:00am

SW-846 8151

Qualifications:

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Sample(s) Qualified:

2,4-DB [2C]

10L0434-01[HF-31-DS], B023783-MS1, B023783-MSD1

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.



Michael A. Erickson
Laboratory Director

Project Location: New Bedford - Residential

Sample Description:

Work Order: 10L0434

Date Received: 12/14/2010

Field Sample #: HF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0434-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
2,4-DB [1]	ND	28	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
2,4,5-TP (Silvex) [1]	ND	2.8	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
2,4,5-T [1]	ND	2.8	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
Dalapon [1]	ND	69	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
Dicamba [1]	ND	2.8	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
Dichloroprop [1]	ND	28	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
Dinoseb [1]	ND	14	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
MCPA [1]	ND	2800	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
MCPP [1]	ND	2800	µg/Kg dry	1		SW-846 8151	12/16/10	12/20/10 9:23	CJM
Surrogates		% Recovery	Recovery Limits		Flag				
2,4-Dichlorophenylacetic acid [1]		94.4	30-150					12/20/10 9:23	
2,4-Dichlorophenylacetic acid [2]		84.5	30-150					12/20/10 9:23	

Project Location: New Bedford - Residential

Sample Description:

Work Order: 10L0434

Date Received: 12/14/2010

Field Sample #: IIF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0434-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	12/19/10	12/20/10 9:53	VAF

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
10L0434-01 [HF-31-DS]	B023922	12/19/10

Prep Method: SW-846 8151-SW-846 8151

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10L0434-01 [HF-31-DS]	B023783	20.1	5.00	12/16/10

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

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

Batch B023783 - SVV-846 8151

Blank (B023783-BLK1)

Prepared: 12/16/10 Analyzed: 12/20/10

2,4-D	ND	24	µg/Kg wet							
2,4-D [2C]	ND	24	µg/Kg wet							
2,4-DB	ND	24	µg/Kg wet							
2,4-DB [2C]	ND	24	µg/Kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/Kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/Kg wet							
2,4,5-T	ND	2.4	µg/Kg wet							
2,4,5-T [2C]	ND	2.4	µg/Kg wet							
Dalapon	ND	60	µg/Kg wet							
Dalapon [2C]	ND	60	µg/Kg wet							
Dicamba	ND	2.4	µg/Kg wet							
Dicamba [2C]	ND	2.4	µg/Kg wet							
Dichloroprop	ND	24	µg/Kg wet							
Dichloroprop [2C]	ND	24	µg/Kg wet							
Dinoseb	ND	12	µg/Kg wet							
Dinoseb [2C]	ND	12	µg/Kg wet							
MCPA	ND	2400	µg/Kg wet							
MCPA [2C]	ND	2400	µg/Kg wet							
MCPP	ND	2400	µg/Kg wet							
MCPP [2C]	ND	2400	µg/Kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	227		µg/Kg wet	239		95.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	222		µg/Kg wet	239		92.9	30-150			

LCS (B023783-BS1)

Prepared: 12/16/10 Analyzed: 12/20/10

2,4-D	507	24	µg/Kg wet	476		107	40-140			
2,4-D [2C]	512	24	µg/Kg wet	476		107	40-140			
2,4-DB	537	24	µg/Kg wet	476		113	40-140			
2,4-DB [2C]	501	24	µg/Kg wet	476		105	40-140			
2,4,5-TP (Silvex)	48.3	2.4	µg/Kg wet	47.6		101	40-140			
2,4,5-TP (Silvex) [2C]	46.0	2.4	µg/Kg wet	47.6		96.5	40-140			
2,4,5-T	46.5	2.4	µg/Kg wet	47.6		97.6	40-140			
2,4,5-T [2C]	46.3	2.4	µg/Kg wet	47.6		97.1	40-140			
Dalapon	954	60	µg/Kg wet	1190		80.1	40-140			
Dalapon [2C]	980	60	µg/Kg wet	1190		82.3	40-140			
Dicamba	49.5	2.4	µg/Kg wet	47.6		104	40-140			
Dicamba [2C]	46.6	2.4	µg/Kg wet	47.6		97.8	40-140			
Dichloroprop	629	24	µg/Kg wet	476		132	40-140			
Dichloroprop [2C]	654	24	µg/Kg wet	476		137	40-140			
Dinoseb	181	12	µg/Kg wet	238		76.1	40-140			
Dinoseb [2C]	182	12	µg/Kg wet	238		76.4	40-140			
MCPA	58300	2400	µg/Kg wet	47600		122	40-140			
MCPA [2C]	52000	2400	µg/Kg wet	47600		109	40-140			
MCPP	44400	2400	µg/Kg wet	47600		93.3	40-140			
MCPP [2C]	42800	2400	µg/Kg wet	47600		89.8	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	262		µg/Kg wet	238		110	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	252		µg/Kg wet	238		106	30-150			

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B023783 - SW-846 8151

LCS Dup (B023783-BSD1)				Prepared: 12/16/10 Analyzed: 12/20/10						
2,4-D	514	24	µg/Kg wet	481		107	40-140	1.23	30	
2,4-D [2C]	517	24	µg/Kg wet	481		107	40-140	0.924	30	
2,4-DB	506	24	µg/Kg wet	481		105	40-140	5.84	30	
2,4-DB [2C]	473	24	µg/Kg wet	481		98.4	40-140	5.71	30	
2,4,5-TP (Silvex)	48.7	2.4	µg/Kg wet	48.1		101	40-140	0.842	30	
2,4,5-TP (Silvex) [2C]	46.4	2.4	µg/Kg wet	48.1		96.6	40-140	1.02	30	
2,4,5-T	45.0	2.4	µg/Kg wet	48.1		93.6	40-140	3.22	30	
2,4,5-T [2C]	45.0	2.4	µg/Kg wet	48.1		93.5	40-140	2.85	30	
Dalapon	968	60	µg/Kg wet	1200		80.6	40-140	1.52	30	
Dalapon [2C]	992	60	µg/Kg wet	1200		82.5	40-140	1.19	30	
Dicamba	50.2	2.4	µg/Kg wet	48.1		104	40-140	1.38	30	
Dicamba [2C]	47.6	2.4	µg/Kg wet	48.1		99.1	40-140	2.27	30	
Dichloroprop	641	24	µg/Kg wet	481		133	40-140	1.91	30	
Dichloroprop [2C]	666	24	µg/Kg wet	481		139	40-140	1.87	30	
Dinoseb	166	12	µg/Kg wet	240		69.0	40-140	8.75	30	
Dinoseb [2C]	167	12	µg/Kg wet	240		69.6	40-140	8.36	30	
MCPA	59600	2400	µg/Kg wet	48100		124	40-140	2.17	30	
MCPA [2C]	53300	2400	µg/Kg wet	48100		111	40-140	2.45	30	
MCPP	45300	2400	µg/Kg wet	48100		94.3	40-140	2.03	30	
MCPP [2C]	43900	2400	µg/Kg wet	48100		91.3	40-140	2.58	30	
Surrogate: 2,4-Dichlorophenylacetic acid	266		µg/Kg wet	240		111	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	257		µg/Kg wet	240		107	30-150			

Matrix Spike (B023783-MS1)				Source: 10L0434-01 Prepared: 12/16/10 Analyzed: 12/20/10						
2,4-D	611	27	µg/Kg dry	532	ND	115	30-150			
2,4-D [2C]	616	27	µg/Kg dry	532	ND	116	30-150			
2,4-DB	614	27	µg/Kg dry	532	ND	115	30-150			
2,4-DB [2C]	576	27	µg/Kg dry	532	ND	108	30-150			R-06
2,4,5-TP (Silvex)	55.7	2.7	µg/Kg dry	53.2	ND	105	30-150			
2,4,5-TP (Silvex) [2C]	52.9	2.7	µg/Kg dry	53.2	ND	99.4	30-150			
2,4,5-T	52.4	2.7	µg/Kg dry	53.2	ND	98.4	30-150			
2,4,5-T [2C]	52.6	2.7	µg/Kg dry	53.2	ND	98.8	30-150			
Dalapon	1120	67	µg/Kg dry	1330	ND	83.8	30-150			
Dalapon [2C]	1150	67	µg/Kg dry	1330	ND	86.4	30-150			
Dicamba	57.8	2.7	µg/Kg dry	53.2	ND	109	30-150			
Dicamba [2C]	55.3	2.7	µg/Kg dry	53.2	ND	104	30-150			
Dichloroprop	742	27	µg/Kg dry	532	ND	139	30-150			
Dichloroprop [2C]	780	27	µg/Kg dry	532	ND	146	30-150			
Dinoseb	197	13	µg/Kg dry	266	ND	74.0	30-150			
Dinoseb [2C]	201	13	µg/Kg dry	266	ND	75.4	30-150			
MCPA	69600	2700	µg/Kg dry	53200	ND	131	30-150			
MCPA [2C]	62800	2700	µg/Kg dry	53200	ND	118	30-150			
MCPP	52700	2700	µg/Kg dry	53200	ND	99.0	30-150			
MCPP [2C]	52000	2700	µg/Kg dry	53200	ND	97.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	308		µg/Kg dry	266		116	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	297		µg/Kg dry	266		112	30-150			

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023783 - SW-846 8151										
Matrix Spike Dup (B023783-MSD1)										
		Source: 10L0434-01		Prepared: 12/16/10		Analyzed: 12/20/10				
2,4-D	457	27	µg/Kg dry	543	ND	84.2	30-150	28.8	30	
2,4-D [2C]	457	27	µg/Kg dry	543	ND	84.1	30-150	29.6	30	
2,4-DB	456	27	µg/Kg dry	543	ND	84.0	30-150	29.6	30	
2,4-DB [2C]	422	27	µg/Kg dry	543	ND	77.7	30-150	31.0	30	R-06
2,4,5-TP (Silvex)	43.1	2.7	µg/Kg dry	54.3	ND	79.4	30-150	25.5	30	
2,4,5-TP (Silvex) [2C]	40.7	2.7	µg/Kg dry	54.3	ND	75.1	30-150	26.0	30	
2,4,5-T	39.9	2.7	µg/Kg dry	54.3	ND	73.6	30-150	26.9	30	
2,4,5-T [2C]	39.8	2.7	µg/Kg dry	54.3	ND	73.4	30-150	27.6	30	
Dalapon	873	68	µg/Kg dry	1360	ND	64.3	30-150	24.4	30	
Dalapon [2C]	890	68	µg/Kg dry	1360	ND	65.6	30-150	25.4	30	
Dicamba	45.0	2.7	µg/Kg dry	54.3	ND	83.0	30-150	24.9	30	
Dicamba [2C]	42.5	2.7	µg/Kg dry	54.3	ND	78.2	30-150	26.3	30	
Dichloroprop	570	27	µg/Kg dry	543	ND	105	30-150	26.3	30	
Dichloroprop [2C]	588	27	µg/Kg dry	543	ND	108	30-150	28.0	30	
Dinoseb	149	14	µg/Kg dry	271	ND	54.8	30-150	28.0	30	
Dinoseb [2C]	149	14	µg/Kg dry	271	ND	55.1	30-150	29.3	30	
MCPA	52500	2700	µg/Kg dry	54300	ND	96.6	30-150	28.1	30	
MCPA [2C]	46800	2700	µg/Kg dry	54300	ND	86.2	30-150	29.2	30	
MCPP	40000	2700	µg/Kg dry	54300	ND	73.6	30-150	27.5	30	
MCPP [2C]	38700	2700	µg/Kg dry	54300	ND	71.2	30-150	29.3	30	
Surrogate: 2,4-Dichlorophenylacetic acid	239		µg/Kg dry	271		87.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	228		µg/Kg dry	271		84.0	30-150			

QUALITY CONTROL

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

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B023922 - % Solids

Duplicate (B023922-DUP1)

Source: 10L0434-01

Prepared: 12/19/10 Analyzed: 12/20/10

% Solids	89.8		% Wt			90.3		0.555	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.
- R-06 Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

CERTIFICATIONS

Certified Analyses Included in this Report

Analyte	Certifications
<i>SW-846 8151 In Soil</i>	
2,4-D	NY
2,4-DB	NY
2,4,5-TP (Silvex)	NY
2,4,5-T	NY
Dalapon	NY
Dicamba	NY
Dichloroprop	NY
Dinoseb	NY
MCPA	NY
MCPP	NY

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LA000112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



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CHAIN OF CUSTODY RECORD

38 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: JRC
 Address: 150 SUFFOLK ST
LOWELL MA 01854
 Attention: DAVID SULLIVAN

Telephone: 978, 975, 5000
 Project # 115058
 Client PO # 29386

Project Location: NEW Bedford-Residential
 Sampled By: J. Grady

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax # : _____
 Email: dsullivan@jrcsolutions.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes)
 yes no State Form Required?
 yes no

Field ID	Sample Description	Lab #	Date Sampled	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix Code	Conc. Code	ANALYSIS REQUESTED	# of containers
SB-118-1A (0-1')		-17	12/17/10	1345	1350	X		S	U	PCRA & METALS NO METALS + Hg POHS METALS (As, Ba, Cd, Cr Pb, Ni, Zn) PCBs SVOCs VOCs Pesticides & Herbicides Ignitability/Flashpoint Corrosivity/pH Reactive sulfide & reactive cyanide TCLP P5	1
SB-118-1A (1-3')		-18									1
SB-118-1A (3-4')		-19									1
SB-118-1A (6-7')		-20									1
SB-118-1A (9-10')	(H1A)	-21									1
HF-31-05		-22									1
HF-31-05		-23									1
HF-31-05		-24									1
HF-31-05		-25									1
HF-31-05		-26									1
HF-31-05		-27									1
HF-31-05		-28									1
HF-31-05		-29									1
HF-31-05		-30									1
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HF-31-05		-94									1
HF-31-05		-95									1
HF-31-05		-96									1
HF-31-05		-97									1
HF-31-05		-98									1
HF-31-05		-99									1
HF-31-05		-100									1

Laboratory Comments: 12-09-10 16:01 IN

Relinquished by: (signature) [Signature] Date/Time: 12/11/10 10:10

Received by: (signature) [Signature] Date/Time: 12/9/10 11:10

Field (acquired by) (signature) [Signature] Date/Time: 12/9/10 15:30

Received by: (signature) [Signature] Date/Time: 12/9/10 15:30

Turnaround **
 7-Day
 10-Day
 Other 5 Days
 RUSH *

Regulations? WQ 5-1

Data Enhancement Project/RCP? Y N

Special Requirements or DL's: _____

Matrix Code: _____

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

Comments: PCRA & METALS
NO METALS + Hg
POHS
METALS (As, Ba, Cd, Cr
Pb, Ni, Zn)
PCBs
SVOCs
VOCs
Pesticides & Herbicides
Ignitability/Flashpoint
Corrosivity/pH
Reactive sulfide & reactive cyanide
TCLP P5



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TRC
 Address: 1050 SUFFOLK ST
LOWELL MA 01854
 Attention: DAVID SULLIVAN
 Project Location: New Bedford-Residential
 Sampled By: J. Gray

Telephone: 978 970 5000
 Project # 115058
 Client PO # 29386

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #:
 Email: dsullivan@trcsolutions.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes)
 yes no
 State Form Required?
 yes no

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix Code	Conc. Code	Analysis Requested	Client Comments
SB-118-1C (1-3)		09	12/8/10	12:35						
SB-118-1C (3-4-5)		10		12:40						
SB-118-1C (5-6)		11		12:45						
SB-118-1C (9-10)		12		12:50						
SB-118-1B (0-1)		13		13:15						
SB-118-1B (1-3)		14		13:20						
SB-118-1B (4-5)		15		13:25						
SB-118-1B (8-9)		16	12/8/10	13:30						

12-09-10 16:01 IN

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 - Clear; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 12/9/10 10:10
 Received by: (signature) [Signature] Date/Time: 12/9/10 10:10
 Relinquished by: (signature) [Signature] Date/Time: 12/9/10 15:30
 Received by: (signature) [Signature] Date/Time: 12/9/10 15:30

Turnaround **
 7-Day
 10-Day
 Other 50
 RUSH *
 *24-Hr *48-Hr
 *72-Hr *4-0ay
 Require lab approval

Detection Limit Requirements
 Regulations? MCP 5-1
 Data Enhancement Project/RCP? Y N
 Special Requirements or DL's: _____

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

Preservation Codes:
 I = lead
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

Cont. Code:
 A = amber glass
 G = glass
 P = plastic
 ST = sterile
 V = vial
 S = sump/can
 T = feeder bag
 O = other
 ICE

* 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 VCPRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.
 AIHA, NELAP & WBEDE Certified



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Page 1 of 3

Company Name: IBC
 Address: 1850 BURGESS ST
LOWELL MA 01854
 Attention: DAVID SULLIVAN
 Project Location: New Bedford - Residential
 Sampled By: J. Grandy

Telephone: (478) 970 5100
 Project # 115058
 Client PO # 29386

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: dsullivan@trcscsolutions.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes)
 Yes No

State Form Required?
 Yes No

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp-oste	Grab	Matrix Code	Conc. Code	Analysis Requested
58-118-7 (6-6.5')		01	12/8/10	1030	X		S	U	MCP Metals + Hg PAHs Metals (As, Ba, Cd, Cr, Pb, Zn, Ni)
58-118-7 (6.5-7')		02		1035					
58-118-7 (7-7.5')		03		1040					
58-118-5 (D-1')		04		1100					
58-118-6 (6.5-7.5')		05		1140					
58-118-6 (7.5-10.5') (Hold)		06		1145					
58-118-2 (10-1')		07		1200					
58-118-1 (10-1')		08	12/8/10	1230					

Laboratory Comments: 12-09-10 16:01 IN

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) _____ Date/Time: 12/9/10 10:10

Received by: (signature) _____ Date/Time: 12/9/10 10:10

Relinquished by: (signature) _____ Date/Time: 12/9/10 15:30

Received by: (signature) _____ Date/Time: 12/9/10 15:30

Turnaround **
 7-Day
 10-Day
 Other: 5-D
 RUSH *
 *24-Hr *48-Hr
 *72-Hr *4-Day
 *Require lab approval

Detection Limit Requirements
 Regulations? MCP 5-1
 Data Enhancement Project/PCP? Y N
 Special Requirements or DLs: _____

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

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

Cont. Code:
 A = Amber glass
 G = Glass
 P = Plastic
 S = Sterile
 V = Vial
 S = Summa can
 T = Teflon bag
 O = Other

Client Comments: _____

** 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

Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: TEC DATE: 12/9/10

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 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 5.0°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where: 19

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>5</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>21</u>	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	<u>6</u>	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments: 12-09-10 16:01 IN

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water 4
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

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

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

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 10L0434
Project Location: New Bedford - Residential	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
10L0434-01

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 (x)	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

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

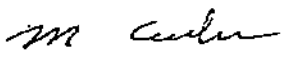
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

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

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

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

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

Signature: _____ 	Position: Laboratory Director
Printed Name: Michael A. Erickson	Date: 12/27/10

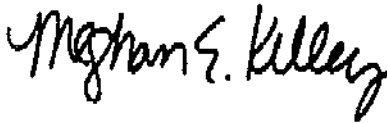
January 7, 2011

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford-Residential
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10L0814

Enclosed are results of analyses for samples received by the laboratory on December 30, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



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

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

REPORT DATE: 1/7/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10L0814

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-Residential

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HF-31-DS	10L0814-01	Soil		SW-846 1311 SW-846 6010B	

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 lead was requested and reported.

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: New Bedford-Residential

Sample Description:

Work Order: 10L0814

Date Received: 12/30/2010

Field Sample #: HF-31-DS

Sampled: 12/8/2010 15:00

Sample ID: 10L0814-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.062	0.010	mg/L	1		SW-846 6010B	1/6/11	1/7/11 10:53	OP

Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6010B

Leachates were extracted on 1/3/2011 per SW-846 1311 in Batch B024437

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10L0814-01 [HF-31-D5]	B024591	50.0	50.0	01/06/11

QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B024591 - SW-846 3010A										
Blank (B024591-BLK1)										
				Prepared: 01/06/11 Analyzed: 01/07/11						
Lead	ND	0.010	mg/L							
LCS (B024591-BS1)										
				Prepared: 01/06/11 Analyzed: 01/07/11						
Lead	0.523	0.010	mg/L	0.500		105	80-120			
LCS Dup (B024591-BSD1)										
				Prepared: 01/06/11 Analyzed: 01/07/11						
Lead	0.497	0.010	mg/L	0.500		99.3	80-120	5.19	20	
Matrix Spike (B024591-MS1)										
				Source: 10L0814-01			Prepared: 01/06/11 Analyzed: 01/07/11			
Lead	0.555	0.010	mg/L	0.500	0.0620	98.6	75-125			

FLAG/QUALIFIER SUMMARY

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

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

CERTIFICATIONS

Certified Analyses Included in this Report

Analyte	Certifications
<i>SW-846 6010B in Water</i>	

Lead NY,CT

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts OEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



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

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: FRC
 Address: 150 DUFFOLK ST
LOWELL MA 01854
 Attention: DAVID SILVON

Telephone: 978 970 5000
 Project # 115058
 Client PO # 29386

Project Location: NEAR Bedford-Residential
 Sampled By: J. Grandy

DATA DELIVERY (check one):
 REMAIL WEBSITE CLIENT
 Email: David.Silvon@FRCsolutions.com
 Format: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes)
 yes no

State Form Required?
 yes no

Field ID	Sample Description	Lab #	Date Sampled	Start Date/Time	Stop Date/Time	Comp. Grab	Matrix Code	Conc. Code	Matrix Code	Conc. Code	# of containers
SB-118-1A (1-1)		17	12/10	1345	1350	X	S	U	X	I	1
SB-118-1A (1-3)		18							X	I	1
SB-118-1A (3-4)		19							X	I	1
SB-118-1A (6-7)		20							X	I	1
SB-118-1A (9-10)	(HML)	21							X	I	1
HF-31-05		22			1500				X	I	1
HF-31-BW (1-3)		23							X	I	1
HF-31-BW (1-3)		24							X	I	1

Laboratory Comments: ATMOSPHERIC SAMPLE FOR PARTICULATE ON A STANDARDIZED FILTER
12-09-10 16:01 IN
PER THE REQUEST OF THE CLIENT

Requested by: (signature) [Signature] Date/Time: 12/10/10 10:10
 Received by: (signature) [Signature] Date/Time: 12/10/10 10:10
 Released by: (signature) [Signature] Date/Time: 12/10/10 15:30

Turnaround **
 7-Day 10-Day Other 5 D
 24-Hr 48-Hr 72-Hr 4-Day

Detection Limit Requirements: MCP 5-1
 Regulations? WQS 5-1
 Data Enhancement Project/PCP? Y N
 Special Requirements or DL's: _____

Matrix Code: GW = groundwater, WW = wastewater, DW = drinking water, A = air, S = soil/solid, SL = sludge, O = other
 Preservation Codes: I = lead, H = HCL, M = Methanol, N = Nitric Acid, S = Sulfuric Acid, B = Sodium bisulfate, K = Na hydroxide, T = Na thiosulfate

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.

AIHA, NELAP & WBE/DBE Certified



Phone: 413-526-2332
 Fax: 413-525-9405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

1160002 1060446

38 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01026

Page 1 of 3

Company Name: TBC
 Address: 1050 SINGLET ST
LOWELL MA 01854
 Attention: DAVID SULLIVAN

Telephone: (978) 970 5000
 Project # 1150578
 Client PO # 29386

Project Location: New Bedford - Residential

Sampled By: J. Grubbs

Proposal Provided? (For Billing purposes) yes no

State Form Required? yes no

DATA DELIVERY (check email):
 FAX EMAIL WEBSITE CLIENT
 Email: d.sullivan@contestlabs.com
 Format: EXCEL PDF GIS KEY

Field ID	Sample Description	Lab #	Date Sampled	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix Code	Conc. Code	ANALYSIS REQUESTED
58-118-7	(6-6-8")	-01	12/8/10	10:20	10:35	X	S	U		MCP Metals + Hg
58-118-7	(6-5-5")	-02		10:45	10:55	X	S	U		PATHS
58-118-7	(12-18") (HOLE)	-03		10:50	11:00	X	S	U		Metals (As, Ba, Cd, Cr, Pb, Zn, Ni)
58-118-5	(0-1')	-01A		11:00	11:40	X	S	U		
58-118-6	(6-5-3-5") (HOLE)	-06		11:45	11:50	X	S	U		
58-118-2	(2/0-1')	-07		12:50	1:00	X	S	U		
58-118-1	(0-1')	-08		12/8/10	12:30	X	S	U		

Laboratory Comments: 12-09-10 16:01 IN

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 12/9/10 10:10

Requested by: (signature) [Signature] Date/Time: 12/9/10 10:10

Requested by: (signature) [Signature] Date/Time: 12/9/10 15:30

Requested by: (signature) [Signature] Date/Time: 12/9/10 15:30

Turnaround **

7-Day
 10-Day
 Other: 5-D
 RUSH *

*24-Hr *48-Hr
 *72-Hr *1-Day

* Requires lab approval

Detection Limit Requirements

Regulations? MCP 5-1

Data Enhancement Project/RCP? Y N

Special Requirements or DLS: _____

Matrix Codes:

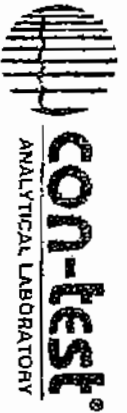
GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

**Preservation Codes:

I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 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.

AIHA, NELAP & WBE/DBE Certified



Phone: 413-525-2332
 Fax: 413-525-8405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: JRC
 Address: 1050 SURREY ST
LOWELL MA 01854

Telephone: 978 970 5000
 Project # 115058
 Client PO # 29388

1	2	3	4	5	6	7	8	9	10	11	12
A	A	A									

Attention: DAVID SULLIVAN

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Project Location: New Bedford-Residential

Fax #: _____
 Email: CSullivan@JRCsolutions.com

Sampled By: J. Gray

Formal: EXCEL PDF GIS KEY

Proposal Provided? (For Billing purposes) yes no
 Sale Form Required? yes no

Proposal date: _____

Date Sampled: _____
 Start Date/Time: _____
 Stop Date/Time: _____

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Com- p- o- s- i- t- i- o- n-	Gr- a- d-	Ma- t- r- i- x C- o- d- e	Con- c- e- n- t C- o- d- e	ANALYSIS REQUESTED	Client Comments:
58-118-1C(1-3)		09	12/8/10	1235	X		S	D	MCP METALS + Hg	
58-118-1C(3-4.5")		10		1240	X				DATA	
58-118-1C(5-6")		11		1245	X				METALS (As, Ba, Cd, Cr, Pb, Ni, Zn)	
58-118-1C(9-10") (HOLD)		12		1250	X					* On Hold *
58-118-1B(0-1")		13		1315	X					
58-118-1B(1-3")		14		1320	X					
58-118-1B(4-5")		15		1325	X					
58-118-1B(8-9") (HOLD)		16	12/8/10	1330	X					* On Hold *

Laboratory Comments: 12-09-10 15:01 IN

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

Requested by: (signature) _____
 Date/Time: 12/9/10 10:10
 Received by: (signature) _____
 Date/Time: 12/9/10 15:30
 Released by: (signature) _____
 Date/Time: 12/9/10 15:30

Turnaround**
 7-Day
 10-Day
 Other: 5-1
 RUSH*
 24-Hr 48-Hr
 72-Hr 4-Day
 Require lab approval

Detection Limit Requirements
 Regulations? MCP 5-1
 Date Enhancement Project/RCP? Y N
 Special Requirements or DL's: _____

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

**Preservation Codes:
 I= Iodid
 H= HCL
 M= Methanol
 N= Nitric Acid
 S= Sulfuric Acid
 B= Sodium bisulfite
 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 INCOMPLETE, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

Meghan Kelley

From: Saunders, Jeffry (Lowell,MA-US) [Jsaunders@trcsolutions.com]
Sent: Thursday, December 30, 2010 11:06 AM
To: Meghan Kelley
Cc: Sullivan, Dave (Lowell,MA-US)
Subject: Sample HF-31-DS
Attachments: Con-Test 10L0446.pdf

Meghan,

Please run the TCLP lead for sample HF-31-DS (see the attached data report). A standard turnaround time should be fine.

Let me know if you have any questions.

Thanks and Happy New Year!

-Jeff

Jeffry B. Saunders
Project Geologist



TRC Companies, Inc.
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

(978) 656-3610 (phone)
(978) 453-1995 (fax)
jrsaunders@trcsolutions.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 10L0814
Project Location: New Bedford-Residential	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
10L0814-01

Matrices: **Soil**

CAM Protocol (check all that below)

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

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status


G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

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

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

¹All 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: <u></u>	Position: <u>Laboratory Manager</u>
Printed Name: <u>Daren J. Damboragian</u>	Date: <u>01/07/11</u>

APPENDIX G
Photograph Log

Photograph Log
Soil Removal at Sample Location HF-31
New Bedford, Massachusetts



1. Secured site and dust monitoring locations (February 23, 2011).



2. Excavation of PCB Remediation Waste soil (February 23, 2011).

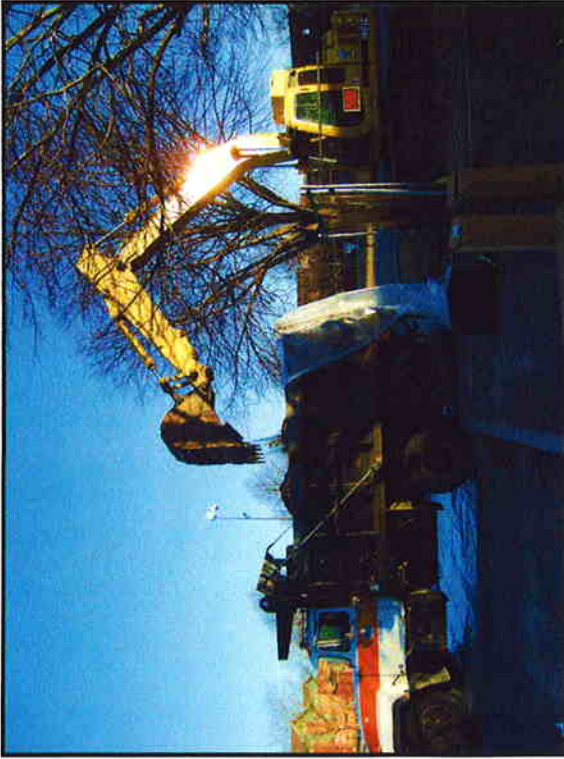


3. Excavation of MCP risk reduction soil (February 24, 2011).



4. Excavation of MCP risk reduction soil (February 24, 2011).

Photograph Log
Soil Removal at Sample Location HF-31
New Bedford, Massachusetts



5. Loading of soil into lined trucks (February 24, 2011).



6. Compacting imported backfill material (February 24, 2011).



7. Compacting imported backfill material (February 24, 2011).



8. Regrading of loam in completed excavation (February 24, 2011).

APPENDIX H

Laboratory Data Packages - Imported Backfill and Loam Material

February 3, 2010

Jason Atwood
Triumvirate Environmental
Box 136, 63 Innerbelt Road
Sommerville, MA 02143

Project Location: New Bedford, MA
Client Job Number:
Project Number: 65002
Laboratory Work Order Number: 10A0386

Enclosed are results of analyses for samples received by the laboratory on January 20, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager



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

REPORT DATE: 2/3/2010

Triumvirate Environmental
Box 136, 63 Innerbelt Road
Sommerville, MA 02143
ATTN: Jason Atwood

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 65002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10A0386

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
G Lopes Loam#1-3	10A0386-01	Soil		MADEP-EPH-04-1.1 MADEP-VPH-04-1.1 SM 2540G SW-846 6010B SW-846 7471A SW-846 8081A SW-846 8082 SW-846 8100 Modified SW-846 8151 SW-846 8260B SW-846 8270C	MA M-RI010/CT PH-0740/NY11471

CASE NARRATIVE SUMMARY

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

REVISED REPORT - 2/3/10 - Per clients request, EPH and VPH added to project.

MADEP-VPH-04-1.1

Qualifications:

Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.

Analyte & Samples(s) Qualified:

Naphthalene

B009942-BS1, B009942-BSD1

SW-846 8260B

Qualifications:

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:

Isopropylbenzene (Cumene), Trichlorofluoromethane (Freon 11)

B009696-BS1, B009696-BSD1

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 high side.

Analyte & Samples(s) Qualified:

Naphthalene

B009696-BS1, B009696-BSD1

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:

1,1-Dichloroethane

B009696-BSD1

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:

1,1-Dichloroethane

10A0386-01[G Lopes Loam#1-3], B009696-BLK1, B009696-BS1, B009696-BSD1

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

Analyte & Samples(s) Qualified:

Chloromethane

10A0386-01[G Lopes Loam#1-3], B009696-BLK1, B009696-BS1, B009696-BSD1

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

Analyte & Samples(s) Qualified:

Trichlorofluoromethane (Freon 11)

B009696-BS1, B009696-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

10A0386-01[G Lopes Loam#1-3], B009696-BLK1, B009696-BS1, B009696-BSD1

SW-846 8270C

Qualifications:

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:**2,4-Dinitrophenol**

10A0386-01[G Lopes Loam#1-3], B009646-BLK1, B009646-BS1, B009646-BSD1

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:**Pentachlorophenol**

B009646-BS1

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:**Di-n-octylphthalate**

10A0386-01[G Lopes Loam#1-3], B009646-BLK1, B009646-BS1, B009646-BSD1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

SW-846 8260B

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 somewhere between 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, tert-butyl alcohol, acetone, 1,4-dioxane, vinyl chloride, chloromethane, dichlorodifluoromethane, 2-hexanone, naphthalene, methylene chloride, and tert-butylbenzene, bromomethane.

Duplicate laboratory fortified blank RPDs were all within control limits specified by the method except for "difficult analytes" where RPDs of 50% are used and/or unless otherwise listed in this narrative. Difficult analyte: 1,4-dioxane

SW-846 8270C

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes for soil LCS - limits between 10 and 180% depending on the compound(see QC summary report for limits): 3,3'-dichlorobenzidine, aniline, 2,4-dinitrophenol, and 4-chloroaniline.

Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or 30% for soil except for "difficult analytes" where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative. Difficult analytes for soil RPDs: 3,3'-dichlorobenzidine, 4-nitrophenol, and aniline.

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.



Christopher J. Hall
Project Chemist Supervisor

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Sampled: 1/20/2010 09:30

Field Sample #: G Lopes Loam#1-3

Sample ID: 10A0386-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.16	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Benzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromochloromethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromodichloromethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromoform	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Bromomethane	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2-Butanone (MEK)	ND	0.063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
n-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
sec-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
tert-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Carbon Disulfide	ND	0.0094	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Carbon Tetrachloride	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chlorodibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chloroform	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Chloromethane	ND	0.016	mg/Kg dry	1	V-05	SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2-Chlorotoluene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
4-Chlorotoluene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Dibromomethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,3-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,4-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1-Dichloroethane	ND	0.0031	mg/Kg dry	1	R-05	SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1-Dichloroethylene	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
cis-1,2-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
trans-1,2-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2-Dichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,3-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2,2-Dichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1-Dichloropropene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
cis-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
trans-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Diethyl Ether	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Diisopropyl Ether (DIPE)	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,4-Dioxane	ND	0.16	mg/Kg dry	1	V-16	SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Ethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
2-Hexanone (MBK)	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Isopropylbenzene (Cumene)	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Methylene Chloride	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Naphthalene	ND	0.031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
n-Propylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Styrene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,1,2-Tetrachloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Tetrachloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Tetrahydrofuran	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Toluene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,3-Trichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,4-Trichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,1-Trichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,1,2-Trichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Trichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,3-Trichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,2,4-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
Vinyl Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
m+p Xylene	ND	0.0063	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF
o-Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260B	1/25/10	1/25/10 13:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	88.8	70-130	1/25/10 13:38
Toluene-d8	110	70-130	1/25/10 13:38
4-Bromofluorobenzene	99.4	70-130	1/25/10 13:38

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Butylbenzylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Dimethylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	L-04	SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Di-n-octylphthalate	ND	0.79	mg/Kg dry	1	R-05	SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Fluoranthene	0.32	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Indeno(1,2,3-cd)pyrene	0.20	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL



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

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Phenanthrene	0.22	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270C	1/23/10	1/27/10 16:34	BGL
Surrogates	% Recovery	Recovery Limits			Flag				
2-Fluorophenol	67.1	30-130						1/27/10 16:34	
Phenol-d6	65.0	30-130						1/27/10 16:34	
Nitrobenzene-d5	61.6	30-130						1/27/10 16:34	
2-Fluorobiphenyl	62.2	30-130						1/27/10 16:34	
2,4,6-Tribromophenol	72.8	30-130						1/27/10 16:34	
Terphenyl-d14	56.7	30-130						1/27/10 16:34	

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.024	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Aldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
alpha-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
beta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
delta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
gamma-BHC (Lindane) [1]	ND	0.0036	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
4,4'-DDD [2]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
4,4'-DDE [2]	0.013	0.0048	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
4,4'-DDT [2]	0.072	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Dieldrin [2]	ND	0.0024	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endosulfan I [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endosulfan II [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endosulfan sulfate [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endrin [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endrin aldehyde [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Endrin ketone [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Heptachlor [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Hexachlorobenzene [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Methoxychlor [1]	ND	0.060	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081A	1/23/10	1/25/10 15:39	JB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	58.5	30-150						1/25/10 15:39	
Decachlorobiphenyl [2]	64.0	30-150						1/25/10 15:39	
Tetrachloro-m-xylene [1]	60.7	30-150						1/25/10 15:39	
Tetrachloro-m-xylene [2]	66.3	30-150						1/25/10 15:39	

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/23/10	1/25/10 14:42	JB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		63.6	30-150					1/25/10 14:42	
Decachlorobiphenyl [2]		62.4	30-150					1/25/10 14:42	
Tetrachloro-m-xylene [1]		70.5	30-150					1/25/10 14:42	
Tetrachloro-m-xylene [2]		69.9	30-150					1/25/10 14:42	

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Sampled: 1/20/2010 09:30

Field Sample #: G Lopes Loam#1-3

Sample ID: 10A0386-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH as Diesel	88	50	mg/Kg dry	5		SW-846 8100 Modified	1/25/10	1/26/10 15:59	CJM

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Sampled: 1/20/2010 09:30

Field Sample #: G Lopes Loam#1-3

Sample ID: 10A0386-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
C19-C36 Aliphatics	ND	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Unadjusted C11-C22 Aromatics	16	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
C11-C22 Aromatics	ND	14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Acenaphthene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Acenaphthylene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Anthracene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(a)anthracene	0.20	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(a)pyrene	0.19	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(b)fluoranthene	0.24	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(g,h,i)perylene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Benzo(k)fluoranthene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Chrysene	0.26	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Dibenz(a,h)anthracene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Fluoranthene	0.35	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Fluorene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Indeno(1,2,3-cd)pyrene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
2-Methylnaphthalene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Naphthalene	ND	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Phenanthrene	0.29	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM
Pyrene	0.48	0.14	mg/Kg dry	1.2		MADEP-EPH-04-1.1	2/2/10	2/3/10 14:38	CJM

Surrogates	% Recovery	Recovery Limits	Flag
Chlorooctadecane (COD)	43.1	40-140	
o-Terphenyl (OTP)	77.3	40-140	
2-Bromonaphthalene	99.2	40-140	
2-Fluorobiphenyl	96.0	40-140	



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

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.05

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	21	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
C5-C8 Aliphatics	ND	21	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Benzene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Ethylbenzene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Naphthalene	ND	0.70	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
Toluene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH
o-Xylene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	2/2/10	2/2/10 13:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag
2,5-Dibromotoluene (FID)	116	70-130	
2,5-Dibromotoluene (PID)	115	70-130	



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

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Arsenic	5.4	2.9	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Barium	33	5.8	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Chromium	9.6	0.58	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Lead	58	0.87	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Mercury	0.070	0.029	mg/Kg dry	1		SW-846 7471A	1/25/10	1/25/10 14:13	MPF
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010B	1/22/10	1/25/10 16:44	KSH



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Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	1/22/10	1/25/10 8:38	NH



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

Project Location: New Bedford, MA

Sample Description:

Work Order: 10A0386

Date Received: 1/20/2010

Field Sample #: G Lopes Loam#1-3

Sampled: 1/20/2010 09:30

Sample ID: 10A0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
2,4-DB	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
2,4,5-TP (Silvex)	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
2,4,5-T	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dalapon	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dicamba	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dichloroprop	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET
Dinoseb	ND	115	µg/Kg	1		SW-846 8151	1/25/10	1/25/10 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag
DCMA	43	40-140	



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

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009945	20	2	02/02/10

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009942	15.8	18.5	02/02/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009608			01/22/10

Prep Method: SW-846 3051-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009631	1.0255	50	01/22/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009658	0.1014	25	01/25/10

Prep Method: SW-846 3546-SW-846 8081A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009648	10	10	01/23/10

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009647	10	50	01/23/10

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009660	30	1	01/25/10

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009696	3.8	10	01/25/10

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10A0386-01 [G Lopes Loam#1-3]	B009646	30	1	01/23/10

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009696 - SW-846 5035										
Blank (B009696-BLK1)										
Prepared & Analyzed: 01/25/10										
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	0.0020	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	0.0020	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	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							V-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	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							R-05
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	0.020	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	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.020	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 B009696 - SW-846 5035

Blank (B009696-BLK1)

Prepared & Analyzed: 01/25/10

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							
1,1,1,2,2-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	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	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	0.0417		mg/Kg wet	0.0500		83.4	70-130			
Surrogate: Toluene-d8	0.0552		mg/Kg wet	0.0500		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0528		mg/Kg wet	0.0500		106	70-130			

LCS (B009696-BS1)

Prepared & Analyzed: 01/25/10

Acetone	0.175	0.10	mg/Kg wet	0.200		87.3	70-160			†
tert-Amyl Methyl Ether (TAME)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Benzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Bromochloromethane	0.0251	0.0020	mg/Kg wet	0.0200		125	70-130			
Bromodichloromethane	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Bromoform	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromomethane	0.0190	0.010	mg/Kg wet	0.0200		94.9	40-130			†
2-Butanone (MEK)	0.170	0.040	mg/Kg wet	0.200		85.2	70-160			†
n-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
sec-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
tert-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130			
Carbon Disulfide	0.0216	0.0060	mg/Kg wet	0.0200		108	70-130			
Carbon Tetrachloride	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
Chlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Chlorodibromomethane	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0231	0.020	mg/Kg wet	0.0200		116	70-130			
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.7	70-130			
Chloromethane	0.0154	0.010	mg/Kg wet	0.0200		77.1	70-130			V-05
2-Chlorotoluene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
4-Chlorotoluene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromoethane (EDB)	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
Dibromomethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	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
Batch B009696 - SW-846 5035										
LCS (B009696-BS1)										
Prepared & Analyzed: 01/25/10										
Dichlorodifluoromethane (Freon 12)	0.0265	0.020	mg/Kg wet	0.0200		132	40-160			†
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			R-05
1,2-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
1,1-Dichloroethylene	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130			
cis-1,2-Dichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
trans-1,2-Dichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2-Dichloropropane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
1,3-Dichloropropane	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130			
2,2-Dichloropropane	0.0169	0.0020	mg/Kg wet	0.0200		84.4	70-130			
1,1-Dichloropropene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
cis-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Diethyl Ether	0.0165	0.020	mg/Kg wet	0.0200		82.7	70-130			
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
1,4-Dioxane	0.288	0.10	mg/Kg wet	0.200		144	40-160			V-16 †
Ethylbenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Hexachlorobutadiene	0.0258	0.0020	mg/Kg wet	0.0200		129	70-160			
2-Hexanone (MBK)	0.272	0.020	mg/Kg wet	0.200		136	70-160			†
Isopropylbenzene (Cumene)	0.0270	0.0020	mg/Kg wet	0.0200		135	* 70-130			L-02
p-Isopropyltoluene (p-Cymene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Methylene Chloride	0.0195	0.020	mg/Kg wet	0.0200		97.6	40-160			†
4-Methyl-2-pentanone (MIBK)	0.250	0.020	mg/Kg wet	0.200		125	70-160			†
Naphthalene	0.0347	0.020	mg/Kg wet	0.0200		174	* 40-130			L-06 †
n-Propylbenzene	0.0251	0.0020	mg/Kg wet	0.0200		125	70-130			
Styrene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130			
1,1,1,2-Tetrachloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1,2,2-Tetrachloroethane	0.0256	0.0010	mg/Kg wet	0.0200		128	70-130			
Tetrachloroethylene	0.0255	0.0020	mg/Kg wet	0.0200		127	70-130			
Tetrahydrofuran	0.0218	0.010	mg/Kg wet	0.0200		109	70-130			
Toluene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130			
1,2,3-Trichlorobenzene	0.0255	0.0020	mg/Kg wet	0.0200		127	70-130			
1,2,4-Trichlorobenzene	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130			
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichlorofluoromethane (Freon 11)	0.0332	0.010	mg/Kg wet	0.0200		166	* 70-130			L-02, V-06
1,2,3-Trichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
1,3,5-Trimethylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
Vinyl Chloride	0.0238	0.010	mg/Kg wet	0.0200		119	40-130			†
m+p Xylene	0.0453	0.0040	mg/Kg wet	0.0400		113	70-130			
o-Xylene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0408		mg/Kg wet	0.0500		81.6	70-130			
Surrogate: Toluene-d8	0.0551		mg/Kg wet	0.0500		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0527		mg/Kg wet	0.0500		105	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
Batch B009696 - SW-846 5035										
LCS Dup (B009696-BSD1)										
Prepared & Analyzed: 01/25/10										
Acetone	0.164	0.10	mg/Kg wet	0.200		82.2	70-160	5.96	25	†
tert-Amyl Methyl Ether (TAME)	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130	5.33	25	
Benzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	0.376	25	
Bromobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	2.41	25	
Bromochloromethane	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130	1.27	25	
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	1.46	25	
Bromoform	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	6.61	25	
Bromomethane	0.0226	0.010	mg/Kg wet	0.0200		113	40-130	17.3	25	†
2-Butanone (MEK)	0.154	0.040	mg/Kg wet	0.200		77.0	70-160	10.2	25	†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	1.83	25	
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	2.19	25	
tert-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-160	0.0985	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130	3.10	25	
Carbon Disulfide	0.0228	0.0060	mg/Kg wet	0.0200		114	70-130	5.40	25	
Carbon Tetrachloride	0.0173	0.0020	mg/Kg wet	0.0200		86.3	70-130	7.47	25	
Chlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	2.82	25	
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	2.64	25	
Chloroethane	0.0234	0.020	mg/Kg wet	0.0200		117	70-130	1.20	25	
Chloroform	0.0188	0.0040	mg/Kg wet	0.0200		94.0	70-130	2.83	25	
Chloromethane	0.0152	0.010	mg/Kg wet	0.0200		75.9	70-130	1.57	25	V-05
2-Chlorotoluene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	1.92	25	
4-Chlorotoluene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	1.83	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	11.8	25	
1,2-Dibromoethane (EDB)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	0.793	25	
Dibromomethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.365	25	
1,2-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.384	25	
1,3-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	5.11	25	
1,4-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	4.46	25	
Dichlorodifluoromethane (Freon 12)	0.0257	0.020	mg/Kg wet	0.0200		129	40-160	2.91	25	†
1,1-Dichloroethane	0.0133	0.0020	mg/Kg wet	0.0200		66.3	* 70-130	46.6	* 25	L-07A, R-05
1,2-Dichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	1.45	25	
1,1-Dichloroethylene	0.0222	0.0040	mg/Kg wet	0.0200		111	70-130	0.907	25	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	1.05	25	
trans-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	2.07	25	
1,2-Dichloropropane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	0.00	25	
1,3-Dichloropropane	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130	2.08	25	
2,2-Dichloropropane	0.0159	0.0020	mg/Kg wet	0.0200		79.4	70-130	6.11	25	
1,1-Dichloropropene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130	3.77	25	
cis-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	1.06	25	
trans-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	2.60	25	
Diethyl Ether	0.0168	0.020	mg/Kg wet	0.0200		83.9	70-130	1.44	25	
Diisopropyl Ether (DIPE)	0.0170	0.0010	mg/Kg wet	0.0200		85.1	70-130	18.4	25	
1,4-Dioxane	0.301	0.10	mg/Kg wet	0.200		151	40-160	4.45	50	V-16 † ‡
Ethylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	0.175	25	
Hexachlorobutadiene	0.0251	0.0020	mg/Kg wet	0.0200		125	70-160	2.75	25	
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114	70-160	17.3	25	†
Isopropylbenzene (Cumene)	0.0270	0.0020	mg/Kg wet	0.0200		135	* 70-130	0.00	25	L-02
p-Isopropyltoluene (p-Cymene)	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.786	25	
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.397	25	
Methylene Chloride	0.0202	0.020	mg/Kg wet	0.0200		101	40-160	3.62	25	†
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160	18.4	25	†
Naphthalene	0.0272	0.020	mg/Kg wet	0.0200		136	* 40-130	24.1	25	L-06 †

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009696 - SW-846 5035										
I.C.S Dup (B009696-BSD1) Prepared & Analyzed: 01/25/10										
n-Propylbenzene	0.0250	0.0020	mg/Kg wet	0.0200		125	70-130	0.240	25	
Styrene	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	1.99	25	
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.37	25	
1,1,2,2-Tetrachloroethane	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130	5.94	25	
Tetrachloroethylene	0.0256	0.0020	mg/Kg wet	0.0200		128	70-130	0.705	25	
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.7	70-130	11.8	25	
Toluene	0.0244	0.0020	mg/Kg wet	0.0200		122	70-130	4.02	25	
1,2,3-Trichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	10.2	25	
1,2,4-Trichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	8.09	25	
1,1,1-Trichloroethane	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130	3.80	25	
1,1,2-Trichloroethane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	1.63	25	
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.11	25	
Trichlorofluoromethane (Freon 11)	0.0330	0.010	mg/Kg wet	0.0200		165 *	70-130	0.604	25	L-02, V-06
1,2,3-Trichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	11.8	25	
1,2,4-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.760	25	
1,3,5-Trimethylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	1.07	25	
Vinyl Chloride	0.0218	0.010	mg/Kg wet	0.0200		109	40-130	8.78	25	
m+p Xylene	0.0453	0.0040	mg/Kg wet	0.0400		113	70-130	0.00	25	
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	0.723	25	
Surrogate: 1,2-Dichloroethane-d4	0.0395		mg/Kg wet	0.0500		79.1	70-130			
Surrogate: Toluene-d8	0.0563		mg/Kg wet	0.0500		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.0520		mg/Kg wet	0.0500		104	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B009646 - SW-846 3546

Blank (B009646-BLK1)

Prepared: 01/23/10 Analyzed: 01/26/10

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.66	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							L-04
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							R-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009646 - SW-846 3546										
Blank (B009646-BLK1) Prepared: 01/23/10 Analyzed: 01/26/10										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.59		mg/Kg wet	6.67		83.8	30-130			
Surrogate: Phenol-d6	5.23		mg/Kg wet	6.67		78.5	30-130			
Surrogate: Nitrobenzene-d5	2.42		mg/Kg wet	3.33		72.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.33		76.7	30-130			
Surrogate: 2,4,6-Tribromophenol	3.89		mg/Kg wet	6.67		58.3	30-130			
Surrogate: Terphenyl-d14	2.82		mg/Kg wet	3.33		84.7	30-130			
LCS (B009646-BS1) Prepared: 01/23/10 Analyzed: 01/26/10										
Acenaphthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
Acetophenone	0.487	0.34	mg/Kg wet	0.833		58.4	40-140			
Aniline	0.538	0.34	mg/Kg wet	1.67		32.3	10-140			†
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Benzo(a)anthracene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Benzo(a)pyrene	0.800	0.17	mg/Kg wet	1.67		48.0	40-140			
Benzo(b)fluoranthene	0.756	0.17	mg/Kg wet	1.67		45.3	40-140			
Benzo(g,h,i)perylene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(k)fluoranthene	0.794	0.17	mg/Kg wet	1.67		47.6	40-140			
Bis(2-chloroethoxy)methane	1.15	0.34	mg/Kg wet	1.67		69.3	40-140			
Bis(2-chloroethyl)ether	1.13	0.34	mg/Kg wet	1.67		68.1	40-140			
Bis(2-chloroisopropyl)ether	1.11	0.34	mg/Kg wet	1.67		66.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.67		73.2	40-140			
4-Bromophenylphenylether	1.04	0.34	mg/Kg wet	1.67		62.6	40-140			
Butylbenzylphthalate	1.21	0.66	mg/Kg wet	1.67		72.7	40-140			
4-Chloroaniline	0.339	0.66	mg/Kg wet	1.67		20.3	10-140			†
2-Chloronaphthalene	0.917	0.34	mg/Kg wet	1.67		55.0	40-140			
2-Chlorophenol	1.07	0.34	mg/Kg wet	1.67		64.1	30-130			
Chrysene	0.984	0.17	mg/Kg wet	1.67		59.0	40-140			
Dibenz(a,h)anthracene	0.968	0.17	mg/Kg wet	1.67		58.1	40-140			
Dibenzofuran	1.14	0.34	mg/Kg wet	1.67		68.7	40-140			
Di-n-butylphthalate	1.32	0.34	mg/Kg wet	1.67		79.3	40-140			
1,2-Dichlorobenzene	1.05	0.34	mg/Kg wet	1.67		62.8	40-140			
1,3-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140			
1,4-Dichlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140			
3,3-Dichlorobenzidine	0.492	0.17	mg/Kg wet	1.67		29.5	20-140			†
2,4-Dichlorophenol	1.10	0.34	mg/Kg wet	1.67		65.9	30-130			
Diethylphthalate	1.27	0.34	mg/Kg wet	1.67		76.0	40-140			
2,4-Dimethylphenol	1.10	0.34	mg/Kg wet	1.67		66.1	30-130			
Dimethylphthalate	1.20	0.66	mg/Kg wet	1.67		72.2	40-140			
2,4-Dinitrophenol	0.458	0.66	mg/Kg wet	1.67		27.5 *	30-130			L-04
2,4-Dinitrotoluene	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
2,6-Dinitrotoluene	1.26	0.34	mg/Kg wet	1.67		75.6	40-140			
Di-n-octylphthalate	0.984	0.66	mg/Kg wet	1.67		59.0	40-140			R-05
1,2-Diphenylhydrazine (as Azobenzene)	1.06	0.34	mg/Kg wet	1.67		63.6	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140			
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140			
Hexachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.6	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B009646 - SW-846 3546

LCS (B009646-BS1)

Prepared: 01/23/10 Analyzed: 01/26/10

Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.6	40-140			
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		64.9	40-140			
Indeno(1,2,3-cd)pyrene	0.955	0.17	mg/Kg wet	1.67		57.3	40-140			
Isophorone	1.23	0.34	mg/Kg wet	1.67		73.6	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
2-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.4	30-130			
3/4-Methylphenol	1.16	0.34	mg/Kg wet	1.67		69.4	30-130			
Naphthalene	0.955	0.17	mg/Kg wet	1.67		57.3	40-140			
Nitrobenzene	1.01	0.34	mg/Kg wet	1.67		60.9	40-140			
2-Nitrophenol	1.03	0.34	mg/Kg wet	1.67		61.5	30-130			
4-Nitrophenol	1.08	0.66	mg/Kg wet	1.67		64.7	30-130			
Pentachlorophenol	0.462	0.34	mg/Kg wet	1.67		27.7 *	30-130			L-07
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Phenol	1.05	0.34	mg/Kg wet	1.67		62.9	30-130			
Pyrene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
1,2,4-Trichlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.6	40-140			
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.1	30-130			
2,4,6-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.4	30-130			
Surrogate: 2-Fluorophenol	4.59		mg/Kg wet	6.67		68.8	30-130			
Surrogate: Phenol-d6	4.57		mg/Kg wet	6.67		68.6	30-130			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.16		mg/Kg wet	3.33		64.9	30-130			
Surrogate: 2,4,6-Tribromophenol	5.68		mg/Kg wet	6.67		85.2	30-130			
Surrogate: Terphenyl-d14	2.47		mg/Kg wet	3.33		74.2	30-130			

LCS Dup (B009646-BS1)

Prepared: 01/23/10 Analyzed: 01/26/10

Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	14.3	30	
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	15.2	30	
Acetophenone	0.527	0.34	mg/Kg wet	0.833		63.2	40-140	7.83	30	
Aniline	0.584	0.34	mg/Kg wet	1.67		35.0	10-140	8.14	50	† †
Anthracene	1.23	0.17	mg/Kg wet	1.67		73.9	40-140	12.0	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	13.2	30	
Benzo(a)pyrene	0.943	0.17	mg/Kg wet	1.67		56.6	40-140	16.4	30	
Benzo(b)fluoranthene	0.910	0.17	mg/Kg wet	1.67		54.6	40-140	18.5	30	
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.21	30	
Benzo(k)fluoranthene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140	19.3	30	
Bis(2-chloroethoxy)methane	1.38	0.34	mg/Kg wet	1.67		83.1	40-140	18.1	30	
Bis(2-chloroethyl)ether	1.32	0.34	mg/Kg wet	1.67		79.4	40-140	15.4	30	
Bis(2-chloroisopropyl)ether	1.30	0.34	mg/Kg wet	1.67		78.3	40-140	16.0	30	
Bis(2-Ethylhexyl)phthalate	1.52	0.34	mg/Kg wet	1.67		91.4	40-140	22.1	30	
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		77.9	40-140	21.7	30	
Butylbenzylphthalate	1.52	0.66	mg/Kg wet	1.67		91.5	40-140	22.9	30	
4-Chloroaniline	0.251	0.66	mg/Kg wet	1.67		15.1	10-140	29.7	30	†
2-Chloronaphthalene	1.12	0.34	mg/Kg wet	1.67		67.4	40-140	20.2	30	
2-Chlorophenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	10.2	30	
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	13.0	30	
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	7.74	30	
Dibenzofuran	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	10.1	30	
Di-n-butylphthalate	1.51	0.34	mg/Kg wet	1.67		90.4	40-140	13.0	30	
1,2-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.6	40-140	14.5	30	
1,3-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	15.4	30	
1,4-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.2	40-140	15.6	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009646 - SW-846 3546										
LCS Dup (B009646-BSD1)										
					Prepared: 01/23/10 Analyzed: 01/26/10					
3,3-Dichlorobenzidine	0.489	0.17	mg/Kg wet	1.67		29.3	20-140	0.612	50	† ‡
2,4-Dichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.5	30-130	8.12	30	
Diethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	11.2	30	
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.0	30-130	12.7	30	
Dimethylphthalate	1.40	0.66	mg/Kg wet	1.67		84.2	40-140	15.3	30	
2,4-Dinitrophenol	0.492	0.66	mg/Kg wet	1.67		29.5 *	30-130	7.15	30	L-04
2,4-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	1.84	30	
2,6-Dinitrotoluene	1.40	0.34	mg/Kg wet	1.67		83.7	40-140	10.1	30	
Di-n-octylphthalate	1.39	0.66	mg/Kg wet	1.67		83.4	40-140	34.2 *	30	R-05
1,2-Diphenylhydrazine (as Azobenzene)	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	24.5	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	3.72	30	
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140	5.88	30	
Hexachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140	20.3	30	
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.1	40-140	23.3	30	
Hexachloroethane	1.28	0.34	mg/Kg wet	1.67		76.5	40-140	16.5	30	
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	8.13	30	
Isophorone	1.44	0.34	mg/Kg wet	1.67		86.5	40-140	16.0	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	8.61	30	
2-Methylphenol	1.22	0.34	mg/Kg wet	1.67		73.4	30-130	2.61	30	
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130	3.31	30	
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	15.9	30	
Nitrobenzene	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	21.0	30	
2-Nitrophenol	1.18	0.34	mg/Kg wet	1.67		70.7	30-130	13.9	30	
4-Nitrophenol	0.785	0.66	mg/Kg wet	1.67		47.1	30-130	31.4	50	‡
Pentachlorophenol	0.549	0.34	mg/Kg wet	1.67		33.0	30-130	17.3	30	
Phenanthrene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	12.3	30	
Phenol	1.15	0.34	mg/Kg wet	1.67		68.9	30-130	9.04	30	
Pyrene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140	23.5	30	
1,2,4-Trichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2	40-140	17.7	30	
2,4,5-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.8	30-130	6.37	30	
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130	15.2	30	
Surrogate: 2-Fluorophenol	5.25		mg/Kg wet	6.67		78.8	30-130			
Surrogate: Phenol-d6	4.88		mg/Kg wet	6.67		73.1	30-130			
Surrogate: Nitrobenzene-d5	2.53		mg/Kg wet	3.33		76.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.72		mg/Kg wet	3.33		81.6	30-130			
Surrogate: 2,4,6-Tribromophenol	5.30		mg/Kg wet	6.67		79.6	30-130			
Surrogate: Terphenyl-d14	3.10		mg/Kg wet	3.33		93.0	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009648 - SW-846 3546										
Blank (B009648-BLK1)										
Prepared: 01/23/10 Analyzed: 01/25/10										
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0030	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0030	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0080	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0080	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0080	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0080	mg/Kg wet							
Dieldrin	ND	0.0020	mg/Kg wet							
Dieldrin [2C]	ND	0.0020	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.4	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009648 - SW-846 3546										
LCS (B009648-BS1) Prepared: 01/23/10 Analyzed: 01/25/10										
Alachlor	0.021	0.020	mg/Kg wet	0.0200		103	40-140			
Alachlor [2C]	0.020	0.020	mg/Kg wet	0.0200		98.0	40-140			
Aldrin	0.020	0.0050	mg/Kg wet	0.0200		98.7	40-140			
Aldrin [2C]	0.020	0.0050	mg/Kg wet	0.0200		101	40-140			
alpha-BHC	0.023	0.0050	mg/Kg wet	0.0200		114	40-140			
alpha-BHC [2C]	0.021	0.0050	mg/Kg wet	0.0200		103	40-140			
beta-BHC	0.020	0.0050	mg/Kg wet	0.0200		100	40-140			
beta-BHC [2C]	0.020	0.0050	mg/Kg wet	0.0200		98.9	40-140			
delta-BHC	0.018	0.0050	mg/Kg wet	0.0200		92.2	40-140			
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.4	40-140			
gamma-BHC (Lindane)	0.020	0.0030	mg/Kg wet	0.0200		99.7	40-140			
gamma-BHC (Lindane) [2C]	0.020	0.0030	mg/Kg wet	0.0200		102	40-140			
4,4'-DDD	0.019	0.0080	mg/Kg wet	0.0200		97.2	40-140			
4,4'-DDD [2C]	0.020	0.0080	mg/Kg wet	0.0200		99.2	40-140			
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		93.8	40-140			
4,4'-DDE [2C]	0.020	0.0040	mg/Kg wet	0.0200		101	40-140			
4,4'-DDT	0.018	0.0080	mg/Kg wet	0.0200		89.8	40-140			
4,4'-DDT [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.1	40-140			
Dieldrin	0.020	0.0020	mg/Kg wet	0.0200		98.6	40-140			
Dieldrin [2C]	0.021	0.0020	mg/Kg wet	0.0200		104	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		93.9	40-140			
Endosulfan I [2C]	0.020	0.0050	mg/Kg wet	0.0200		100	40-140			
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		98.0	40-140			
Endosulfan II [2C]	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
Endosulfan Sulfate	0.019	0.0080	mg/Kg wet	0.0200		96.1	40-140			
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		97.2	40-140			
Endrin	0.017	0.0080	mg/Kg wet	0.0200		84.0	40-140			
Endrin [2C]	0.017	0.0080	mg/Kg wet	0.0200		87.4	40-140			
Endrin Aldehyde	0.019	0.0080	mg/Kg wet	0.0200		95.9	40-140			
Endrin Aldehyde [2C]	0.018	0.0080	mg/Kg wet	0.0200		90.9	40-140			
Endrin Ketone	0.021	0.0080	mg/Kg wet	0.0200		107	40-140			
Endrin Ketone [2C]	0.021	0.0080	mg/Kg wet	0.0200		103	40-140			
Heptachlor	0.020	0.0050	mg/Kg wet	0.0200		98.5	40-140			
Heptachlor [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140			
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		97.5	40-140			
Heptachlor Epoxide [2C]	0.020	0.0050	mg/Kg wet	0.0200		102	40-140			
Hexachlorobenzene	0.021	0.0050	mg/Kg wet	0.0200		105	40-140			
Hexachlorobenzene [2C]	0.020	0.0050	mg/Kg wet	0.0200		100	40-140			
Methoxychlor	0.014	0.050	mg/Kg wet	0.0200		71.2	40-140			
Methoxychlor [2C]	0.019	0.050	mg/Kg wet	0.0200		93.4	40-140			
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg wet	0.200		90.7	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009648 - SW-846 3546										
LCS Dup (B009648-BSD1) Prepared: 01/23/10 Analyzed: 01/25/10										
Alachlor	0.021	0.020	mg/Kg wet	0.0200		106	40-140	2.45	30	
Alachlor [2C]	0.020	0.020	mg/Kg wet	0.0200		102	40-140	4.23	30	
Aldrin	0.021	0.0050	mg/Kg wet	0.0200		103	40-140	4.26	30	
Aldrin [2C]	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	5.26	30	
alpha-BHC	0.023	0.0050	mg/Kg wet	0.0200		115	40-140	0.341	30	
alpha-BHC [2C]	0.022	0.0050	mg/Kg wet	0.0200		109	40-140	5.63	30	
beta-BHC	0.021	0.0050	mg/Kg wet	0.0200		105	40-140	4.29	30	
beta-BHC [2C]	0.021	0.0050	mg/Kg wet	0.0200		104	40-140	4.64	30	
delta-BHC	0.019	0.0050	mg/Kg wet	0.0200		96.3	40-140	4.38	30	
delta-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		97.4	40-140	6.37	30	
gamma-BHC (Lindane)	0.021	0.0030	mg/Kg wet	0.0200		104	40-140	3.95	30	
gamma-BHC (Lindane) [2C]	0.022	0.0030	mg/Kg wet	0.0200		108	40-140	5.19	30	
4,4'-DDD	0.020	0.0080	mg/Kg wet	0.0200		102	40-140	5.10	30	
4,4'-DDD [2C]	0.021	0.0080	mg/Kg wet	0.0200		105	40-140	5.21	30	
4,4'-DDE	0.020	0.0040	mg/Kg wet	0.0200		99.5	40-140	5.91	30	
4,4'-DDE [2C]	0.021	0.0040	mg/Kg wet	0.0200		107	40-140	5.48	30	
4,4'-DDT	0.019	0.0080	mg/Kg wet	0.0200		94.7	40-140	5.28	30	
4,4'-DDT [2C]	0.020	0.0080	mg/Kg wet	0.0200		98.6	40-140	5.68	30	
Dieldrin	0.021	0.0020	mg/Kg wet	0.0200		104	40-140	5.18	30	
Dieldrin [2C]	0.022	0.0020	mg/Kg wet	0.0200		110	40-140	5.29	30	
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		97.9	40-140	4.19	30	
Endosulfan I [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	5.38	30	
Endosulfan II	0.021	0.0080	mg/Kg wet	0.0200		103	40-140	5.01	30	
Endosulfan II [2C]	0.021	0.0080	mg/Kg wet	0.0200		106	40-140	5.17	30	
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		101	40-140	4.91	30	
Endosulfan Sulfate [2C]	0.021	0.0080	mg/Kg wet	0.0200		103	40-140	5.44	30	
Endrin	0.018	0.0080	mg/Kg wet	0.0200		87.9	40-140	4.51	30	
Endrin [2C]	0.018	0.0080	mg/Kg wet	0.0200		92.0	40-140	5.07	30	
Endrin Aldehyde	0.020	0.0080	mg/Kg wet	0.0200		100	40-140	4.20	30	
Endrin Aldehyde [2C]	0.019	0.0080	mg/Kg wet	0.0200		95.8	40-140	5.26	30	
Endrin Ketone	0.022	0.0080	mg/Kg wet	0.0200		111	40-140	3.62	30	
Endrin Ketone [2C]	0.022	0.0080	mg/Kg wet	0.0200		109	40-140	5.09	30	
Heptachlor	0.021	0.0050	mg/Kg wet	0.0200		103	40-140	4.15	30	
Heptachlor [2C]	0.022	0.0050	mg/Kg wet	0.0200		111	40-140	4.59	30	
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		101	40-140	3.87	30	
Heptachlor Epoxide [2C]	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	5.38	30	
Hexachlorobenzene	0.022	0.0050	mg/Kg wet	0.0200		110	40-140	4.05	30	
Hexachlorobenzene [2C]	0.021	0.0050	mg/Kg wet	0.0200		105	40-140	4.85	30	
Methoxychlor	0.015	0.050	mg/Kg wet	0.0200		76.3	40-140	6.85	30	
Methoxychlor [2C]	0.020	0.050	mg/Kg wet	0.0200		97.5	40-140	4.38	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.3	30-150			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009647 - SW-846 3546										
Blank (B009647-BLK1)										
Prepared: 01/23/10 Analyzed: 01/25/10										
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.155		mg/Kg wet	0.200		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg wet	0.200		80.6	30-150			
LCS (B009647-BS1)										
Prepared: 01/23/10 Analyzed: 01/25/10										
Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		71.6	40-140			
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		83.5	40-140			
Aroclor-1260	0.15	0.10	mg/Kg wet	0.200		75.4	40-140			
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		82.1	40-140			
Surrogate: Decachlorobiphenyl	0.151		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		80.9	30-150			
LCS Dup (B009647-BSD1)										
Prepared: 01/23/10 Analyzed: 01/25/10										
Aroclor-1016	0.13	0.10	mg/Kg wet	0.200		66.1	40-140	7.99	30	
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		86.1	40-140	3.04	30	
Aroclor-1260	0.14	0.10	mg/Kg wet	0.200		71.6	40-140	5.09	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		79.2	40-140	3.56	30	
Surrogate: Decachlorobiphenyl	0.142		mg/Kg wet	0.200		70.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.139		mg/Kg wet	0.200		69.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.4	30-150			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009660 - SW-846 3546										
Blank (B009660-BLK1)										
Prepared: 01/25/10 Analyzed: 01/26/10										
TPH as Diesel	ND	8.3	mg/Kg wet							
LCS (B009660-BS1)										
Prepared: 01/25/10 Analyzed: 01/26/10										
TPH as Diesel	28.2	8.3	mg/Kg wet	33.3		84.7	40-140			
LCS Dup (B009660-BSD1)										
Prepared: 01/25/10 Analyzed: 01/26/10										
TPH as Diesel	28.2	8.3	mg/Kg wet	33.3		84.5	40-140	0.240	30	

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B009945 - SW-846 3546

Blank (B009945-BLK1)

Prepared: 02/02/10 Analyzed: 02/03/10

C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	2.34		mg/Kg wet	5.00		46.8	40-140			
Surrogate: o-Terphenyl (OTP)	3.77		mg/Kg wet	5.00		75.5	40-140			
Surrogate: 2-Bromonaphthalene	4.02		mg/Kg wet	5.00		80.4	40-140			
Surrogate: 2-Fluorobiphenyl	3.91		mg/Kg wet	5.00		78.3	40-140			

LCS (B009945-BS1)

Prepared: 02/02/10 Analyzed: 02/03/10

C9-C18 Aliphatics	19.6	10	mg/Kg wet	30.0		65.2	40-140			
C19-C36 Aliphatics	32.5	10	mg/Kg wet	40.0		81.3	40-140			
Unadjusted C11-C22 Aromatics	74.6	10	mg/Kg wet	85.0		87.8	40-140			
Acenaphthene	3.70	0.10	mg/Kg wet	5.00		73.9	40-140			
Acenaphthylene	3.58	0.10	mg/Kg wet	5.00		71.6	40-140			
Anthracene	4.27	0.10	mg/Kg wet	5.00		85.4	40-140			
Benzo(a)anthracene	4.41	0.10	mg/Kg wet	5.00		88.2	40-140			
Benzo(a)pyrene	4.40	0.10	mg/Kg wet	5.00		87.9	40-140			
Benzo(b)fluoranthene	4.62	0.10	mg/Kg wet	5.00		92.4	40-140			
Benzo(g,h,i)perylene	4.35	0.10	mg/Kg wet	5.00		87.0	40-140			
Benzo(k)fluoranthene	4.50	0.10	mg/Kg wet	5.00		89.9	40-140			
Chrysene	4.56	0.10	mg/Kg wet	5.00		91.2	40-140			
Dibenz(a,h)anthracene	4.36	0.10	mg/Kg wet	5.00		87.1	40-140			
Fluoranthene	4.33	0.10	mg/Kg wet	5.00		86.6	40-140			
Fluorene	3.96	0.10	mg/Kg wet	5.00		79.1	40-140			
Indeno(1,2,3-cd)pyrene	4.35	0.10	mg/Kg wet	5.00		87.1	40-140			
2-Methylnaphthalene	3.34	0.10	mg/Kg wet	5.00		66.7	40-140			
Naphthalene	3.04	0.10	mg/Kg wet	5.00		60.9	40-140			
Phenanthrene	4.18	0.10	mg/Kg wet	5.00		83.6	40-140			
Pyrene	4.49	0.10	mg/Kg wet	5.00		89.7	40-140			
n-Nonane	1.81	0.10	mg/Kg wet	5.00		36.1	30-140			
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	2.53		mg/Kg wet	5.00		50.7	40-140			
Surrogate: o-Terphenyl (OTP)	4.34		mg/Kg wet	5.00		86.7	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B009945 - SW-846 3546

LCS (B009945-BS1)

Prepared: 02/02/10 Analyzed: 02/03/10

Surrogate: 2-Bromonaphthalene	4.48		mg/Kg wet	5.00		89.7	40-140			
Surrogate: 2-Fluorobiphenyl	4.47		mg/Kg wet	5.00		89.5	40-140			

LCS Dup (B009945-BSD1)

Prepared: 02/02/10 Analyzed: 02/03/10

C9-C18 Aliphatics	19.0	10	mg/Kg wet	30.0		63.4	40-140	2.94	25	
C19-C36 Aliphatics	31.7	10	mg/Kg wet	40.0		79.2	40-140	2.53	25	
Unadjusted C11-C22 Aromatics	65.7	10	mg/Kg wet	85.0		77.3	40-140	12.7	25	
Acenaphthene	3.21	0.10	mg/Kg wet	5.00		64.3	40-140	14.0	25	
Acenaphthylene	3.12	0.10	mg/Kg wet	5.00		62.4	40-140	13.8	25	
Anthracene	3.72	0.10	mg/Kg wet	5.00		74.5	40-140	13.7	25	
Benzo(a)anthracene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140	13.3	25	
Benzo(a)pyrene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140	13.0	25	
Benzo(b)fluoranthene	4.03	0.10	mg/Kg wet	5.00		80.7	40-140	13.5	25	
Benzo(g,h,i)perylene	3.84	0.10	mg/Kg wet	5.00		76.8	40-140	12.4	25	
Benzo(k)fluoranthene	3.95	0.10	mg/Kg wet	5.00		79.0	40-140	13.0	25	
Chrysene	4.00	0.10	mg/Kg wet	5.00		80.1	40-140	13.0	25	
Dibenz(a,h)anthracene	3.84	0.10	mg/Kg wet	5.00		76.8	40-140	12.6	25	
Fluoranthene	3.76	0.10	mg/Kg wet	5.00		75.3	40-140	13.9	25	
Fluorene	3.44	0.10	mg/Kg wet	5.00		68.9	40-140	13.8	25	
Indeno(1,2,3-cd)pyrene	3.81	0.10	mg/Kg wet	5.00		76.3	40-140	13.2	25	
2-Methylnaphthalene	2.91	0.10	mg/Kg wet	5.00		58.3	40-140	13.5	25	
Naphthalene	2.66	0.10	mg/Kg wet	5.00		53.2	40-140	13.5	25	
Phenanthrene	3.64	0.10	mg/Kg wet	5.00		72.7	40-140	13.9	25	
Pyrene	3.91	0.10	mg/Kg wet	5.00		78.1	40-140	13.8	25	
n-Nonane	1.78	0.10	mg/Kg wet	5.00		35.7	30-140	1.35	25	
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	2.40		mg/Kg wet	5.00		48.0	40-140			
Surrogate: o-Terphenyl (OTP)	3.78		mg/Kg wet	5.00		75.5	40-140			
Surrogate: 2-Bromonaphthalene	3.92		mg/Kg wet	5.00		78.3	40-140			
Surrogate: 2-Fluorobiphenyl	3.92		mg/Kg wet	5.00		78.5	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009942 - MA VPH										
Blank (B009942-BLK1)										
Prepared & Analyzed: 02/02/10										
Unadjusted C5-C8 Aliphatics	ND	16	mg/Kg wet							
C5-C8 Aliphatics	ND	16	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	11	mg/Kg wet							
C9-C12 Aliphatics	ND	11	mg/Kg wet							
C9-C10 Aromatics	ND	11	mg/Kg wet							
Benzene	ND	0.053	mg/Kg wet							
Butylcyclohexane	ND	0.053	mg/Kg wet							
Decane	ND	0.053	mg/Kg wet							
Ethylbenzene	ND	0.053	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.053	mg/Kg wet							
2-Methylpentane	ND	0.053	mg/Kg wet							
Naphthalene	ND	0.53	mg/Kg wet							
Nonane	ND	0.053	mg/Kg wet							
Pentane	ND	0.053	mg/Kg wet							
Toluene	ND	0.053	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.053	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.053	mg/Kg wet							
m+p Xylene	ND	0.11	mg/Kg wet							
o-Xylene	ND	0.053	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	3.23		mg/Kg wet	3.33		97.0	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	3.27		mg/Kg wet	3.33		98.0	70-130			
LCS (B009942-BS1)										
Prepared & Analyzed: 02/02/10										
Benzene	5.70	0.057	mg/Kg wet	6.67		85.5	70-130			
Butylcyclohexane	5.38	0.057	mg/Kg wet	6.67		80.8	70-130			
Decane	6.02	0.057	mg/Kg wet	6.67		90.3	70-130			
Ethylbenzene	5.98	0.057	mg/Kg wet	6.67		89.8	70-130			
Methyl tert-Butyl Ether (MTBE)	5.29	0.057	mg/Kg wet	6.67		79.3	70-130			
2-Methylpentane	6.18	0.057	mg/Kg wet	6.67		92.7	70-130			
Naphthalene	6.04	0.57	mg/Kg wet	6.67		90.5	70-130			R-01
Nonane	5.41	0.057	mg/Kg wet	6.67		81.1	30-130			
Pentane	6.35	0.057	mg/Kg wet	6.67		95.3	70-130			
Toluene	5.95	0.057	mg/Kg wet	6.67		89.3	70-130			
1,2,4-Trimethylbenzene	6.36	0.057	mg/Kg wet	6.67		95.4	70-130			
2,2,4-Trimethylpentane	5.56	0.057	mg/Kg wet	6.67		83.4	70-130			
m+p Xylene	12.2	0.11	mg/Kg wet	13.3		91.2	70-130			
o-Xylene	6.27	0.057	mg/Kg wet	6.67		94.0	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	3.13		mg/Kg wet	3.33		93.9	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	3.10		mg/Kg wet	3.33		93.1	70-130			
LCS Dup (B009942-BSD1)										
Prepared & Analyzed: 02/02/10										
Benzene	6.16	0.057	mg/Kg wet	6.67		92.5	70-130	7.86	25	
Butylcyclohexane	5.61	0.057	mg/Kg wet	6.67		84.1	70-130	4.06	25	
Decane	6.29	0.057	mg/Kg wet	6.67		94.3	70-130	4.38	25	
Ethylbenzene	6.19	0.057	mg/Kg wet	6.67		92.8	70-130	3.30	25	
Methyl tert-Butyl Ether (MTBE)	6.00	0.057	mg/Kg wet	6.67		90.1	70-130	12.7	25	
2-Methylpentane	6.73	0.057	mg/Kg wet	6.67		101	70-130	8.64	25	
Naphthalene	8.39	0.57	mg/Kg wet	6.67		126	70-130	32.6 *	25	R-01
Nonane	5.74	0.057	mg/Kg wet	6.67		86.0	30-130	5.88	25	
Pentane	6.84	0.057	mg/Kg wet	6.67		103	70-130	7.38	25	
Toluene	6.24	0.057	mg/Kg wet	6.67		93.7	70-130	4.77	25	
1,2,4-Trimethylbenzene	6.50	0.057	mg/Kg wet	6.67		97.5	70-130	2.25	25	



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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B009942 - MA VPH

LCS Dup (B009942-BSD1)

Prepared & Analyzed: 02/02/10

2,2,4-Trimethylpentane	5.69	0.057	mg/Kg wet	6.67		85.3	70-130	2.22	25	
m+p Xylene	12.5	0.11	mg/Kg wet	13.3		93.8	70-130	2.86	25	
o-Xylene	6.45	0.057	mg/Kg wet	6.67		96.7	70-130	2.89	25	
Surrogate: 2,5-Dibromotoluene (FID)	4.22		mg/Kg wet	3.33		127	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	4.31		mg/Kg wet	3.33		129	70-130			



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B009631 - SW-846 3051										
Blank (B009631-BLK1)										
Prepared: 01/22/10 Analyzed: 01/25/10										
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	5.0	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B009631-BS1)										
Prepared: 01/22/10 Analyzed: 01/25/10										
Arsenic	171	5.1	mg/Kg wet	162		105	81.6-118.4			
Barium	352	10	mg/Kg wet	357		98.7	80.7-119.3			
Cadmium	175	0.51	mg/Kg wet	192		91.5	82.4-117.6			
Chromium	96.0	1.0	mg/Kg wet	91.7		105	78.8-120.7			
Lead	168	1.5	mg/Kg wet	176		95.6	79.1-120.3			
Selenium	151	10	mg/Kg wet	152		99.7	78.4-120.9			
Silver	61.5	1.0	mg/Kg wet	67.6		90.9	66.2-133.6			
LCS (B009631-BS2)										
Prepared: 01/22/10 Analyzed: 01/25/10										
Lead	0.753	0.75	mg/Kg wet	0.750		100	79.1-120.3			
LCS Dup (B009631-BSD1)										
Prepared: 01/22/10 Analyzed: 01/25/10										
Arsenic	161	5.1	mg/Kg wet	162		99.6	81.6-118.4	5.63	30	
Barium	337	10	mg/Kg wet	357		94.3	80.7-119.3	4.45	30	
Cadmium	168	0.51	mg/Kg wet	192		87.5	82.4-117.6	4.36	30	
Chromium	94.0	1.0	mg/Kg wet	91.8		102	78.8-120.7	2.19	30	
Lead	161	1.5	mg/Kg wet	176		91.1	79.1-120.3	4.67	30	
Selenium	145	10	mg/Kg wet	152		95.4	78.4-120.9	4.27	30	
Silver	58.9	1.0	mg/Kg wet	67.7		87.0	66.2-133.6	4.34	30	
Batch B009658 - SW-846 7471A										
Blank (B009658-BLK1)										
Prepared & Analyzed: 01/25/10										
Mercury	ND	0.025	mg/Kg wet							
LCS (B009658-BS1)										
Prepared & Analyzed: 01/25/10										
Mercury	0.979	0.025	mg/Kg wet	1.10		89.3	66-132			
LCS Dup (B009658-BSD1)										
Prepared & Analyzed: 01/25/10										
Mercury	0.889	0.025	mg/Kg wet	1.02		86.8	66-132	9.65	30	



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QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch V0122 - SW-846 3540C

BLK (V0122-BLK1)

Prepared & Analyzed: 01/25/10

2,4-D	ND	100	µg/Kg				-			
2,4-DB	ND	100	µg/Kg				-			
2,4,5-TP (Silvex)	ND	100	µg/Kg				-			
2,4,5-T	ND	100	µg/Kg				-			
Dalapon	ND	100	µg/Kg				-			
Dicamba	ND	100	µg/Kg				-			
Dichloroprop	ND	100	µg/Kg				-			
Dinoseb	ND	100	µg/Kg				-			

Surrogate: DCMA	71		µg/Kg			71	40-140			
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BS (V0122-BS1)

Prepared & Analyzed: 01/25/10

2,4-D	750	250	µg/Kg	1000		75	40-140			
2,4-DB	800	250	µg/Kg	1000		80	40-140			
2,4,5-TP (Silvex)	752	250	µg/Kg	1000		75.2	40-140			
2,4,5-T	960	250	µg/Kg	1000		96	40-140			
Dalapon	519	250	µg/Kg	1000		51.9	40-140			
Dicamba	743	250	µg/Kg	1000		74.3	40-140			
Dichloroprop	723	250	µg/Kg	1000		72.3	40-140			
Dinoseb	847	250	µg/Kg	1000		84.7	40-140			

Surrogate: DCMA	80		µg/Kg			80	40-140			
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BSD (V0122-BSD1)

Prepared & Analyzed: 01/25/10

2,4-D	756	250	µg/Kg	1000		75.6	40-140		25	
2,4-DB	764	250	µg/Kg	1000		76.4	40-140		25	
2,4,5-TP (Silvex)	742	250	µg/Kg	1000		74.2	40-140		25	
2,4,5-T	961	250	µg/Kg	1000		96.1	40-140		25	
Dalapon	519	250	µg/Kg	1000		51.9	40-140		25	
Dicamba	744	250	µg/Kg	1000		74.4	40-140		25	
Dichloroprop	735	250	µg/Kg	1000		73.5	40-140		25	
Dinoseb	843	250	µg/Kg	1000		84.3	40-140		25	

Surrogate: DCMA	83		µg/Kg			83	40-140			
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BREAKDOWN REPORT

Lab Sample ID: S000248-PEM1 Analyzed: 01/25/2010

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.88
Endrin [1]	14.43

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.91
Endrin [2]	13.42

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.
- 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-06 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 high side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - L-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.
 - R-01 Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.
 - 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. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.
 - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA
C5-C8 Aliphatics	CT,NC,WA
Unadjusted C9-C12 Aliphatics	CT,NC,WA
C9-C12 Aliphatics	CT,NC,WA
C9-C10 Aromatics	CT,NC,WA
Benzene	CT,NC,WA
Ethylbenzene	CT,NC,WA
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA
Naphthalene	CT,NC,WA
Toluene	CT,NC,WA
o-Xylene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 8081A in Soil	
Alachlor	CT,NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081A in Soil</i>	
Alachlor [2C]	CT,NH,NY
Aldrin	CT,NH,NY
Aldrin [2C]	CT,NH,NY
alpha-BHC	CT,NH,NY
alpha-BHC [2C]	CT,NH,NY
beta-BHC	CT,NH,NY
beta-BHC [2C]	CT,NH,NY
delta-BHC	CT,NH,NY
delta-BHC [2C]	CT,NH,NY
gamma-BHC (Lindane)	CT,NH,NY
gamma-BHC (Lindane) [2C]	CT,NH,NY
Chlordane	CT,NH,NY
Chlordane [2C]	CT,NH,NY
4,4'-DDD	CT,NH,NY
4,4'-DDD [2C]	CT,NH,NY
4,4'-DDE	CT,NH,NY
4,4'-DDE [2C]	CT,NH,NY
4,4'-DDT	CT,NH,NY
4,4'-DDT [2C]	CT,NH,NY
Dieldrin	CT,NH,NY
Dieldrin [2C]	CT,NH,NY
Endosulfan I	CT,NH,NY
Endosulfan I [2C]	CT,NH,NY
Endosulfan II	CT,NH,NY
Endosulfan II [2C]	CT,NH,NY
Endosulfan Sulfate	CT,NH,NY
Endosulfan Sulfate [2C]	CT,NH,NY
Endrin	CT,NH,NY
Endrin [2C]	CT,NH,NY
Endrin Aldehyde	CT,NH,NY
Endrin Aldehyde [2C]	CT,NH,NY
Heptachlor	CT,NH,NY
Heptachlor [2C]	CT,NH,NY
Heptachlor Epoxide	CT,NH,NY
Heptachlor Epoxide [2C]	CT,NH,NY
Hexachlorobenzene	CT,NH,NY
Hexachlorobenzene [2C]	CT,NH,NY
Methoxychlor	CT,NH,NY
Methoxychlor [2C]	CT,NH,NY
Toxaphene	CT,NH,NY
Toxaphene [2C]	CT,NH,NY
<i>SW-846 8081A in Water</i>	
Alachlor	CT,NH,NY,RI
Alachlor [2C]	CT,NH,NY,RI
Aldrin	CT,NH,NY,RI
Aldrin [2C]	CT,NH,NY,RI

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081A in Water</i>	
alpha-BHC	CT,NH,NY,RI
alpha-BHC [2C]	CT,NH,NY,RI
beta-BHC	CT,NH,NY,RI
beta-BHC [2C]	CT,NH,NY,RI
delta-BHC	CT,NH,NY,RI
delta-BHC [2C]	CT,NH,NY,RI
gamma-BHC (Lindane)	CT,NH,NY,RI
gamma-BHC (Lindane) [2C]	CT,NH,NY,RI
Chlordane	CT,NH,NY,RI
Chlordane [2C]	CT,NH,NY,RI
4,4'-DDD	CT,NH,NY,RI
4,4'-DDD [2C]	CT,NH,NY,RI
4,4'-DDE	CT,NH,NY,RI
4,4'-DDE [2C]	CT,NH,NY,RI
4,4'-DDT	CT,NH,NY,RI
4,4'-DDT [2C]	CT,NH,NY,RI
Dieldrin	CT,NH,NY,RI
Dieldrin [2C]	CT,NH,NY,RI
Endosulfan I	CT,NH,NY,RI
Endosulfan I [2C]	CT,NH,NY,RI
Endosulfan II	CT,NH,NY,RI
Endosulfan II [2C]	CT,NH,NY,RI
Endosulfan Sulfate	CT,NH,NY,RI
Endosulfan Sulfate [2C]	CT,NH,NY,RI
Endrin	CT,NH,NY,RI
Endrin [2C]	CT,NH,NY,RI
Endrin Aldehyde	CT,NH,NY,RI
Endrin Aldehyde [2C]	CT,NH,NY,RI
Heptachlor	CT,NH,NY,RI
Heptachlor [2C]	CT,NH,NY,RI
Heptachlor Epoxide	CT,NH,NY,RI
Heptachlor Epoxide [2C]	CT,NH,NY,RI
Hexachlorobenzene	CT,NH,NY,RI
Hexachlorobenzene [2C]	CT,NH,NY,RI
Methoxychlor	CT,NH,NY,RI
Methoxychlor [2C]	CT,NH,NY,RI
Toxaphene	CT,NH,NY,RI
Toxaphene [2C]	CT,NH,NY,RI
<i>SW-846 8082 in Soil</i>	
Aroclor-1016	CT,NH,NY
Aroclor-1016 [2C]	CT,NH,NY
Aroclor-1221	CT,NH,NY
Aroclor-1221 [2C]	CT,NH,NY
Aroclor-1232	CT,NH,NY
Aroclor-1232 [2C]	CT,NH,NY
Aroclor-1242	CT,NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082 in Soil	
Aroclor-1242 [2C]	CT,NH,NY
Aroclor-1248	CT,NH,NY
Aroclor-1248 [2C]	CT,NH,NY
Aroclor-1254	CT,NH,NY
Aroclor-1254 [2C]	CT,NH,NY
Aroclor-1260	CT,NH,NY
Aroclor-1260 [2C]	CT,NH,NY
SW-846 8260B in Soil	
Acetone	CT,NH,NY
Benzene	CT,NH,NY
Bromobenzene	NH,NY
Bromochloromethane	NH,NY
Bromodichloromethane	CT,NH,NY
Bromoform	CT,NH,NY
Bromomethane	CT,NH,NY
2-Butanone (MEK)	CT,NH,NY
n-Butylbenzene	CT,NH,NY
sec-Butylbenzene	CT,NH,NY
tert-Butylbenzene	CT,NH,NY
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY
Chlorobenzene	CT,NH,NY
Chlorodibromomethane	CT,NH,NY
Chloroethane	CT,NH,NY
Chloroform	CT,NH,NY
Chloromethane	CT,NH,NY
2-Chlorotoluene	CT,NH,NY
4-Chlorotoluene	CT,NH,NY
Dibromomethane	NH,NY
1,2-Dichlorobenzene	CT,NH,NY
1,3-Dichlorobenzene	CT,NH,NY
1,4-Dichlorobenzene	CT,NH,NY
Dichlorodifluoromethane (Freon 12)	NY
1,1-Dichloroethane	CT,NH,NY
1,2-Dichloroethane	CT,NH,NY
1,1-Dichloroethylene	CT,NH,NY
cis-1,2-Dichloroethylene	CT,NH,NY
trans-1,2-Dichloroethylene	CT,NH,NY
1,2-Dichloropropane	CT,NH,NY
1,3-Dichloropropane	NH,NY
2,2-Dichloropropane	NH,NY
1,1-Dichloropropene	NH,NY
cis-1,3-Dichloropropene	CT,NH,NY
trans-1,3-Dichloropropene	CT,NH,NY
Ethylbenzene	CT,NH,NY
Hexachlorobutadiene	NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
2-Hexanone (MBK)	CT,NH,NY
Isopropylbenzene (Cumene)	CT,NH,NY
Methylene Chloride	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY
Styrene	CT,NH,NY
1,1,1,2-Tetrachloroethane	CT,NH,NY
1,1,2,2-Tetrachloroethane	CT,NH,NY
Tetrachloroethylene	CT,NH,NY
Toluene	CT,NH,NY
1,2,4-Trichlorobenzene	NH,NY
1,1,1-Trichloroethane	CT,NH,NY
1,1,2-Trichloroethane	CT,NH,NY
Trichloroethylene	CT,NH,NY
Trichlorofluoromethane (Freon 11)	CT,NH,NY
1,2,3-Trichloropropane	NH,NY
1,2,4-Trimethylbenzene	CT,NH,NY
1,3,5-Trimethylbenzene	CT,NH,NY
Vinyl Chloride	CT,NH,NY
m+p Xylene	CT,NH,NY
o-Xylene	CT,NH,NY
<i>SW-846 8270C in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270C in Soil</i>	
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH



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

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2010
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2010
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2010
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2010
FL	Florida Department of Health	E871027 NELAP	06/30/2010
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	03/23/2010



CON-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-625-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Triumvirate Environmental, Inc
Address: 61 Inner Belt Road
Somerville, MA 02143

Project # 10A038E
Client PO# 105002
Telephone: 617-628-8098

Attention: Jason Atwood

Project Location: New Bedford, MA

Sampled By:

Project Proposal Provided? (for billing purposes)
 yes no (proposal date)

DATA DELIVERY (check all that apply)

FAX EMAIL WEBSITE
Email: jatwood@triumvirate.com
Format: PDF EXCEL OGIS
 OTHER

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code	Date
		Beginning Date/Time	Ending Date/Time				
01	G Lopes Loan #1	1/20/10 9:30 am	1/20/10 9:30 am				
02	G Lopes Loan #2	1/20/10 9:30 am	1/20/10 9:30 am				
03	G Lopes Loan #3	1/20/10 9:30 am	1/20/10 9:30 am				

ANALYSIS REQUESTED	M	M
VOA 8260B		
VOA 8270C		
PCBs 8082		
RCRA 8 6010B/7471A		
Petro hydrocarbons (volatile/extractable)		
Pesticides/herbicides 8081A/815		
Eph, Vph		

Comments:

Per Jason A, okay to lab preserve 8200 off sample from loan #3, Ken TPT #100, 8200, 8082, RCPs & 8081 and provide to EPA. NO 2110
Per attached email add eph + vph to next water transfer for 9E from TPT.

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

Relinquished by: (signature) *Jason Atwood*
Date/Time: 1/20/10 1:50
Turnaround: 7-Day

Received by: (signature) *Jason Atwood*
Date/Time: 1/20/10 1:50
10-Day

Relinquished by: (signature) *Jason Atwood*
Date/Time: 1/20/10 1:50
RUSH: 12-Hr 148-Hr

Received by: (signature) *Jason Atwood*
Date/Time: 1/20/10 1:50
Require lab approval: 172-Hr 14-Day

Detection Limit Requirements
Massachusetts: _____
Connecticut: _____
Other: _____

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



NELAC & AIHA Certified
WB/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 INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

www.contestlabs.com



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

Sample Receipt Checklist

CLIENT NAME: Trihuvirste RECEIVED BY: JDP DATE: 1/20/10

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

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3°C

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

6) Are there any samples "On Hold"? Yes No Stored where:

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

8) Location where samples are stored:

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

Client Signature: _____

Containers sent in to Con-Test

	# of containers			# of containers
1 Liter Amber	1		8 oz clear jar	
500 mL Amber			4 oz clear jar	
250 mL Amber (8oz amber)			2 oz clear jar	
1 Liter Plastic			Other glass jar	
500 mL Plastic			Plastic Bag / Ziploc	
250 mL plastic			Air Cassette	
40 mL Vial - type listed below	2		Brass Sleeves	
Colisure / bacteria bottle			Tubes	
Dissolved Oxygen bottle			Summa Cans	
Flashpoint bottle			Regulators	
Encore			Other	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water _____ Time and Date Frozen: _____
Thiosulfate _____ . Unpreserved _____

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

Meghan E. Kelley

From: Atwood, Jason N. [jatwood@triumvirate.com]
Sent: Monday, February 01, 2010 2:36 PM
To: chall@contestlabs.com; mkelley@contestlabs.com
Subject: Work Order 10A0386

Hi Meghan,

Per my conversation with Mr. Hall today, please use remaining sample material to run analysis for EPH / VPH per MA DEP for the G Lopes Loam sample listed on the above work order. Please rush this sample for results asap at the applicable surcharge rate.

Thanks
Jason

[Click here to experience online DOT training.](#)

Jason Atwood
Field Service Manager
61 Inner Belt Rd, Somerville, MA 02143

p: 617.715.8997
m: 781.413.5625

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ENVIRONMENTAL

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 10A0386
Project Location: New Bedford, MA	MADEP RTN1':

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

10A0386-01

Sample Matrices: Soil

MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C ()	8081A ()	VPH (X)	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH (X)	7000 S ³ ()	7196A ()
	1 List Release Tracking Number (RTN), if known 2 M -- SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S – SW-846 Methods 7000 Series List individual method and analyte				

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

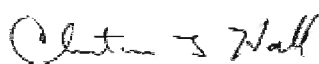
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

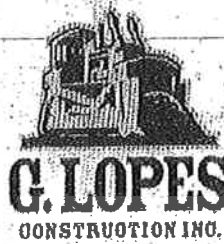
A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹All 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: Project Chemist Supervisor
Printed Name: Christopher J. Hall	Date: 02/03/10



February 7, 2011

Cheryl Henlin
City Hall
Department of Environmental Stewardship, Room 304
133 William Street
New Bedford, MA 02740

RE: The Parker Street Waste Site

Dear Ms. Henlin:

G. Lopes Construction, Inc. continues to source their material for the above referenced project from the same source sampled as of January, 2010.

Please contact me directly at 508-813-1278 should you have further questions or concerns.

Sincerely,

Steve Goldstein, Sales Manager

THE CHOICE OF EXPERIENCE

490 Winthrop St. Taunton MA 02780 Ph: 508-824-4834 Fax: 508.880.3115 Toll Free: 800.562.2479 www.glopesconst.com

July 2, 2010

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: City of New Bedford
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10F0335

Enclosed are results of analyses for samples received by the laboratory on June 11, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager



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

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

REPORT DATE: 7/2/2010

PURCHASE ORDER NUMBER: 24747

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10F0335

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

PROJECT LOCATION: City of New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Med-Soil-1	10F0335-01	Soil		MADEP-EPH-04-1.1 MADEP-VPH-04-1.1 SM 2540G SW-846 6010B SW-846 7471A SW-846 8081A SW-846 8082 SW-846 8260B SW-846 8270C	

CASE NARRATIVE SUMMARY

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

REVISED REPORT - 07/01/2010 - Full 8270 compound list added to blank, LCS and LCS Duplicate.

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

SW-846 8260B

Qualifications:

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, Chlorodibromomethane

B014901-BS1, B014901-BSD1

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, Bromomethane

B014901-BS1

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

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Chlorodibromomethane

B014901-BS1, B014901-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane, 2-Butanone (MEK), Acetone, Tetrahydrofuran

10F0335-01[Med-Soil-1], B014901-BLK1, B014901-BS1, B014901-BSD1

SW-846 8270C

Qualifications:

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:

2,4-Dinitrophenol

B014882-BLK1, B014882-BS1, B014882-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

10F0335-01[Med-Soil-1], B014882-BLK1, B014882-BS1, B014882-BSD1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

SW-846 8260B

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 somewhere between 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, tert-butyl alcohol, acetone, 1,4-dioxane, vinyl chloride, chloromethane, dichlorodifluoromethane, 2-hexanone, naphthalene, methylene chloride, and tert-butylbenzene, bromomethane.

Duplicate laboratory fortified blank RPDs were all within control limits specified by the method except for "difficult analytes" where RPDs of 50% are used and/or unless otherwise listed in this narrative. Difficult analyte: 1,4-dioxane

SW-846 8270C

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes for soil LCS - limits between 10 and 180% depending on the compound(see QC summary report for limits): 3,3'-dichlorobenzidine, aniline, 2,4-dinitrophenol, and 4-chloroaniline.

Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or 30% for soil except for "difficult analytes" where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative. Difficult analytes for soil RPDs: 3,3'-dichlorobenzidine, 4-nitrophenol, and aniline.

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: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1

Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.097	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Bromomethane	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2-Butanone (MEK)	ND	0.039	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Carbon Disulfide	ND	0.0058	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chlorodibromomethane	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chloroform	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Chloromethane	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dibromoethane (EDB)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1-Dichloroethylene	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,3-Dichloropropane	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
cis-1,3-Dichloropropene	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
trans-1,3-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Diisopropyl Ether (DIPE)	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,4-Dioxane	ND	0.097	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF



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

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1

Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Naphthalene	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.00097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Tetrahydrofuran	ND	0.0097	mg/Kg dry	1	V-16	SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
Vinyl Chloride	ND	0.0097	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
m+p Xylene	ND	0.0039	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260B	6/14/10	6/14/10 9:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	105	70-130	6/14/10 9:28
Toluene-d8	102	70-130	6/14/10 9:28
4-Bromofluorobenzene	98.7	70-130	6/14/10 9:28

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1

Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(a)anthracene	0.46	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(a)pyrene	0.42	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(b)fluoranthene	0.54	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(g,h,i)perylene	0.25	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Benzo(k)fluoranthene	0.22	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Butylbenzylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Chrysene	0.47	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Dimethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	V-19	SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Di-n-octylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Fluoranthene	0.61	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Indeno(1,2,3-cd)pyrene	0.26	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL



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Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Sampled: 6/11/2010 09:40

Field Sample #: Med-Soil-1

Sample ID: 10F0335-01

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Phenanthrene	0.28	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
Pyrene	0.60	0.19	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270C	6/14/10	6/16/10 18:10	BGL

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	92.7	30-130	6/16/10 18:10
Phenol-d6	87.9	30-130	6/16/10 18:10
Nitrobenzene-d5	88.8	30-130	6/16/10 18:10
2-Fluorobiphenyl	89.2	30-130	6/16/10 18:10
2,4,6-Tribromophenol	94.3	30-130	6/16/10 18:10
Terphenyl-d14	66.7	30-130	6/16/10 18:10

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1

Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
alpha-BHC [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
beta-BHC [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
delta-BHC [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
gamma-BHC (Lindane) [1]	ND	0.017	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Chlordane [1]	ND	0.11	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
4,4'-DDD [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
4,4'-DDE [1]	ND	0.022	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
4,4'-DDT [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Dieldrin [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endosulfan I [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endosulfan II [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endosulfan sulfate [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endrin [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Endrin ketone [1]	ND	0.044	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Heptachlor [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Heptachlor epoxide [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Hexachlorobenzene [1]	ND	0.028	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB
Methoxychlor [1]	ND	0.28	mg/Kg dry	5		SW-846 8081A	6/14/10	6/16/10 12:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag
Decachlorobiphenyl [1]	70.5	30-150	6/16/10 12:39
Decachlorobiphenyl [2]	80.7	30-150	6/16/10 12:39
Tetrachloro-m-xylene [1]	87.8	30-150	6/16/10 12:39
Tetrachloro-m-xylene [2]	88.0	30-150	6/16/10 12:39



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Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Sampled: 6/11/2010 09:40

Field Sample #: Med-Soil-1

Sample ID: 10F0335-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	6/14/10	6/17/10 0:29	JB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		88.2	30-150					6/17/10 0:29	
Decachlorobiphenyl [2]		81.5	30-150					6/17/10 0:29	
Tetrachloro-m-xylene [1]		102	30-150					6/17/10 0:29	
Tetrachloro-m-xylene [2]		113	30-150					6/17/10 0:29	

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1

Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
C19-C36 Aliphatics	ND	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Unadjusted C11-C22 Aromatics	33	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
C11-C22 Aromatics	27	22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Acenaphthene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Acenaphthylene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Anthracene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(a)anthracene	0.48	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(a)pyrene	0.56	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(b)fluoranthene	0.73	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(g,h,i)perylene	0.45	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Benzo(k)fluoranthene	0.25	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Chrysene	0.53	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Fluoranthene	0.86	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Fluorene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Indeno(1,2,3-cd)pyrene	0.35	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
2-Methylnaphthalene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Naphthalene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Phenanthrene	0.38	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM
Pyrene	0.91	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	6/14/10	6/16/10 23:36	CJM

Surrogates	% Recovery	Recovery Limits	Flag
Chlorooctadecane (COD)	78.4	40-140	6/16/10 23:36
o-Terphenyl (OTP)	89.1	40-140	6/16/10 23:36
2-Bromonaphthalene	102	40-140	6/16/10 23:36
2-Fluorobiphenyl	99.6	40-140	6/16/10 23:36



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

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Sampled: 6/11/2010 09:40

Field Sample #: Med-Soil-1

Sample ID: 10F0335-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.99

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Unadjusted C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
C9-C10 Aromatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Benzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Ethylbenzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Naphthalene	ND	0.65	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Toluene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
m+p Xylene	ND	0.13	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
o-Xylene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	6/14/10	6/14/10 15:53	EEH
Surrogates		% Recovery	Recovery Limits		Flag				
2,5-Dibromotoluene (FID)		116	70-130					6/14/10 15:53	
2,5-Dibromotoluene (PID)		117	70-130					6/14/10 15:53	



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

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1

Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Barium	24	2.8	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Chromium	8.4	0.56	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Lead	12	0.83	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Mercury	0.035	0.016	mg/Kg dry	1		SW-846 7471A	6/14/10	6/15/10 10:46	MPF
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010B	6/14/10	6/14/10 16:23	OP



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

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0335

Date Received: 6/11/2010

Field Sample #: Med-Soil-1

Sampled: 6/11/2010 09:40

Sample ID: 10F0335-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	6/12/10	6/14/10 9:12	NH

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014881	20.1	2.00	06/14/10

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014886	14.9	17.5	06/14/10

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014864			06/12/10

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014875	0.999	50.0	06/14/10

Prep Method: SW-846 7471A-SW-846 7471A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014890	0.176	25.0	06/14/10

Prep Method: SW-846 3546-SW-846 8081A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014877	10.0	10.0	06/14/10

Prep Method: SW-846 3546-SW-846 8082

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014878	10.0	50.0	06/14/10

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014901	5.70	10.0	06/14/10

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
10F0335-01 [Med-Soil-1]	B014882	30.0	1.00	06/14/10

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014901 - SW-846 5035										
Blank (B014901-BLK1)										
Prepared & Analyzed: 06/14/10										
Acetone	ND	0.10	mg/Kg wet							V-16
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	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							V-16
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	0.020	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	0.020	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	0.0020	mg/Kg wet							
Diethyl Ether	ND	0.020	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	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	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
Batch B014901 - SW-846 5035										
Blank (B014901-BLK1)										
Prepared & Analyzed: 06/14/10										
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							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	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	0.0527		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0486		mg/Kg wet	0.0500		97.3	70-130			
LCS (B014901-BS1)										
Prepared & Analyzed: 06/14/10										
Acetone	0.336	0.10	mg/Kg wet	0.200		168 *	70-160			L-07, V-16 †
tert-Amyl Methyl Ether (TAME)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Benzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromochloromethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Bromodichloromethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromoform	0.0299	0.0020	mg/Kg wet	0.0200		149 *	70-130			L-04, V-06
Bromomethane	0.00748	0.010	mg/Kg wet	0.0200		37.4 *	40-130			L-07 †
2-Butanone (MEK)	0.261	0.040	mg/Kg wet	0.200		130	70-160			V-16 †
n-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
sec-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Carbon Disulfide	0.0223	0.0060	mg/Kg wet	0.0200		112	70-130			
Carbon Tetrachloride	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130			
Chlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Chlorodibromomethane	0.0280	0.0010	mg/Kg wet	0.0200		140 *	70-130			L-04, V-06
Chloroethane	0.0193	0.020	mg/Kg wet	0.0200		96.6	70-130			
Chloroform	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130			
Chloromethane	0.0151	0.010	mg/Kg wet	0.0200		75.4	70-130			
2-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			V-06
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,4-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	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
Batch B014901 - SW-846 5035										
LCS (B014901-BS1)										
Prepared & Analyzed: 06/14/10										
Dichlorodifluoromethane (Freon 12)	0.0211	0.020	mg/Kg wet	0.0200		106	40-160			†
1,1-Dichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1-Dichloroethylene	0.0210	0.0040	mg/Kg wet	0.0200		105	70-130			
cis-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
1,3-Dichloropropane	0.0196	0.0010	mg/Kg wet	0.0200		98.0	70-130			
2,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloropropene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
trans-1,3-Dichloropropene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
Diethyl Ether	0.0188	0.020	mg/Kg wet	0.0200		94.0	70-130			
Diisopropyl Ether (DIPE)	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130			
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.2	40-160			V-16 †
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Hexachlorobutadiene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-160			
2-Hexanone (MBK)	0.223	0.020	mg/Kg wet	0.200		112	70-160			†
Isopropylbenzene (Cumene)	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130			
p-Isopropyltoluene (p-Cymene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		100	70-130			
Methylene Chloride	0.0184	0.020	mg/Kg wet	0.0200		92.2	40-160			†
4-Methyl-2-pentanone (MIBK)	0.187	0.020	mg/Kg wet	0.200		93.7	70-160			†
Naphthalene	0.0223	0.0040	mg/Kg wet	0.0200		112	40-130			†
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1,2-Tetrachloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,1,2,2-Tetrachloroethane	0.0198	0.0010	mg/Kg wet	0.0200		99.1	70-130			
Tetrachloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Tetrahydrofuran	0.0166	0.010	mg/Kg wet	0.0200		83.2	70-130			V-16
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
1,2,3-Trichlorobenzene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130			
1,2,4-Trichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130			
1,1,1-Trichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Trichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
Trichlorofluoromethane (Freon 11)	0.0251	0.010	mg/Kg wet	0.0200		126	70-130			
1,2,3-Trichloropropane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,2,4-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,3,5-Trimethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
Vinyl Chloride	0.0183	0.010	mg/Kg wet	0.0200		91.5	40-130			†
m+p Xylene	0.0425	0.0040	mg/Kg wet	0.0400		106	70-130			
o-Xylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0536		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0517		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	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
Batch B014901 - SW-846 5035										
LCS Dup (B014901-BSD1) Prepared & Analyzed: 06/14/10										
Acetone	0.302	0.10	mg/Kg wet	0.200		151	70-160	11.0	25	V-16 †
tert-Amyl Methyl Ether (TAME)	0.0195	0.0010	mg/Kg wet	0.0200		97.3	70-130	5.79	25	
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130	1.91	25	
Bromobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	1.55	25	
Bromochloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	3.79	25	
Bromodichloromethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	4.24	25	
Bromoform	0.0287	0.0020	mg/Kg wet	0.0200		144 *	70-130	3.89	25	L-04, V-06
Bromomethane	0.00858	0.010	mg/Kg wet	0.0200		42.9	40-130	13.7	25	†
2-Butanone (MEK)	0.234	0.040	mg/Kg wet	0.200		117	70-160	10.7	25	V-16 †
n-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	1.17	25	
sec-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	0.624	25	
tert-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-160	2.24	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130	5.60	25	
Carbon Disulfide	0.0217	0.0060	mg/Kg wet	0.0200		109	70-130	2.72	25	
Carbon Tetrachloride	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	2.05	25	
Chlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	0.770	25	
Chlorodibromomethane	0.0269	0.0010	mg/Kg wet	0.0200		135 *	70-130	4.00	25	L-04, V-06
Chloroethane	0.0187	0.020	mg/Kg wet	0.0200		93.7	70-130	3.05	25	
Chloroform	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130	2.88	25	
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.5	70-130	1.20	25	
2-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.63	25	
4-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.31	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	4.60	25	V-06
1,2-Dibromoethane (EDB)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	3.94	25	
Dibromomethane	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	6.49	25	
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.25	25	
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	0.673	25	
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	1.10	25	
Dichlorodifluoromethane (Freon 12)	0.0204	0.020	mg/Kg wet	0.0200		102	40-160	3.56	25	†
1,1-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	2.71	25	
1,2-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	2.41	25	
1,1-Dichloroethylene	0.0207	0.0040	mg/Kg wet	0.0200		103	70-130	1.82	25	
cis-1,2-Dichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	3.07	25	
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.37	25	
1,2-Dichloropropane	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	2.93	25	
1,3-Dichloropropane	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130	3.43	25	
2,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.68	25	
1,1-Dichloropropene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.04	25	
cis-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	2.60	25	
trans-1,3-Dichloropropene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	4.36	25	
Diethyl Ether	0.0188	0.020	mg/Kg wet	0.0200		93.8	70-130	0.213	25	
Diisopropyl Ether (DIPE)	0.0183	0.0010	mg/Kg wet	0.0200		91.7	70-130	4.16	25	
1,4-Dioxane	0.190	0.10	mg/Kg wet	0.200		94.8	40-160	3.54	50	V-16 † †
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	0.379	25	
Hexachlorobutadiene	0.0247	0.0020	mg/Kg wet	0.0200		123	70-160	0.404	25	
2-Hexanone (MBK)	0.199	0.020	mg/Kg wet	0.200		99.6	70-160	11.4	25	†
Isopropylbenzene (Cumene)	0.0252	0.0020	mg/Kg wet	0.0200		126	70-130	0.158	25	
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.442	25	
Methyl tert-Butyl Ether (MTBE)	0.0194	0.0040	mg/Kg wet	0.0200		97.1	70-130	3.34	25	
Methylene Chloride	0.0181	0.020	mg/Kg wet	0.0200		90.4	40-160	1.97	25	†
4-Methyl-2-pentanone (MIBK)	0.177	0.020	mg/Kg wet	0.200		88.4	70-160	5.83	25	†
Naphthalene	0.0209	0.0040	mg/Kg wet	0.0200		105	40-130	6.56	25	†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014901 - SW-846 5035										
LCS Dup (B014901-BSD1)										
Prepared & Analyzed: 06/14/10										
n-Propylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	0.842	25	
Styrene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	1.34	25	
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	0.442	25	
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130	2.76	25	
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	25	
Tetrahydrofuran	0.0162	0.010	mg/Kg wet	0.0200		80.8	70-130	2.93	25	V-16
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	2.26	25	
1,2,3-Trichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	8.08	25	
1,2,4-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	6.89	25	
1,1,1-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.07	25	
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	3.22	25	
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	3.10	25	
Trichlorofluoromethane (Freon 11)	0.0246	0.010	mg/Kg wet	0.0200		123	70-130	2.09	25	
1,2,3-Trichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130	4.11	25	
1,2,4-Trimethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.273	25	
1,3,5-Trimethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.733	25	
Vinyl Chloride	0.0177	0.010	mg/Kg wet	0.0200		88.7	40-130	3.11	25	†
m+p Xylene	0.0423	0.0040	mg/Kg wet	0.0400		106	70-130	0.424	25	
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	0.382	25	
Surrogate: 1,2-Dichloroethane-d4	0.0523		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.7	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B014882 - SW-846 3546

Blank (B014882-BLK1)

Prepared: 06/14/10 Analyzed: 06/15/10

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.66	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

R-05, V-19

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014882 - SW-846 3546										
Blank (B014882-BLK1) †										
Prepared: 06/14/10 Analyzed: 06/15/10										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.91		mg/Kg wet	6.67		73.6	30-130			
Surrogate: Phenol-d6	5.18		mg/Kg wet	6.67		77.6	30-130			
Surrogate: Nitrobenzene-d5	2.47		mg/Kg wet	3.33		74.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.01		mg/Kg wet	3.33		60.4	30-130			
Surrogate: 2,4,6-Tribromophenol	5.96		mg/Kg wet	6.67		89.4	30-130			
Surrogate: Terphenyl-d14	2.62		mg/Kg wet	3.33		78.5	30-130			
LCS (B014882-BS1)										
Prepared: 06/14/10 Analyzed: 06/15/10										
Acenaphthene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140			
Acenaphthylene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140			
Acetophenone	0.669	0.34	mg/Kg wet	0.833		80.3	40-140			
Aniline	0.845	0.34	mg/Kg wet	1.67		50.7	10-140			†
Anthracene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140			
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(b)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140			
Benzo(g,h,i)perylene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Benzo(k)fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
Bis(2-chloroethoxy)methane	1.38	0.34	mg/Kg wet	1.67		82.6	40-140			
Bis(2-chloroethyl)ether	1.38	0.34	mg/Kg wet	1.67		82.7	40-140			
Bis(2-chloroisopropyl)ether	1.70	0.34	mg/Kg wet	1.67		102	40-140			
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.5	40-140			
4-Bromophenylphenylether	1.29	0.34	mg/Kg wet	1.67		77.2	40-140			
Butylbenzylphthalate	1.65	0.66	mg/Kg wet	1.67		98.8	40-140			
4-Chloroaniline	0.576	0.66	mg/Kg wet	1.67		34.5	10-140			†
2-Chloronaphthalene	1.02	0.34	mg/Kg wet	1.67		61.3	40-140			
2-Chlorophenol	1.29	0.34	mg/Kg wet	1.67		77.4	30-130			
Chrysene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140			
Dibenzofuran	1.43	0.34	mg/Kg wet	1.67		86.0	40-140			
Di-n-butylphthalate	1.58	0.34	mg/Kg wet	1.67		95.1	40-140			
1,2-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140			
1,3-Dichlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.4	40-140			
1,4-Dichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.3	40-140			
3,3-Dichlorobenzidine	0.875	0.17	mg/Kg wet	1.67		52.5	20-140			†
2,4-Dichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130			
Diethylphthalate	1.75	0.34	mg/Kg wet	1.67		105	40-140			
2,4-Dimethylphenol	1.45	0.34	mg/Kg wet	1.67		87.2	30-130			
Dimethylphthalate	1.61	0.66	mg/Kg wet	1.67		96.5	40-140			
2,4-Dinitrophenol	0.847	0.66	mg/Kg wet	1.67		50.8	30-130			R-05, V-19
2,4-Dinitrotoluene	1.84	0.34	mg/Kg wet	1.67		110	40-140			
2,6-Dinitrotoluene	1.63	0.34	mg/Kg wet	1.67		97.7	40-140			
Di-n-octylphthalate	1.74	0.66	mg/Kg wet	1.67		104	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.59	0.34	mg/Kg wet	1.67		95.3	40-140			
Fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140			
Fluorene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140			
Hexachlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.3	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B014882 - SW-846 3546

LCS (B014882-BS1)

Prepared: 06/14/10 Analyzed: 06/15/10

Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		71.0	40-140			
Hexachloroethane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Isophorone	1.47	0.34	mg/Kg wet	1.67		88.4	40-140			
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130			
3/4-Methylphenol	1.15	0.34	mg/Kg wet	1.67		68.7	30-130			
Naphthalene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Nitrobenzene	1.34	0.34	mg/Kg wet	1.67		80.3	40-140			
2-Nitrophenol	1.29	0.34	mg/Kg wet	1.67		77.2	30-130			
4-Nitrophenol	1.14	0.66	mg/Kg wet	1.67		68.3	30-130			
Pentachlorophenol	0.866	0.34	mg/Kg wet	1.67		51.9	30-130			
Phenanthrene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140			
Phenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130			
Pyrene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140			
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.9	40-140			
2,4,5-Trichlorophenol	1.25	0.34	mg/Kg wet	1.67		74.8	30-130			
2,4,6-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		78.2	30-130			
Surrogate: 2-Fluorophenol	5.13		mg/Kg wet	6.67		76.9	30-130			
Surrogate: Phenol-d6	5.06		mg/Kg wet	6.67		75.9	30-130			
Surrogate: Nitrobenzene-d5	2.70		mg/Kg wet	3.33		81.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2,4,6-Tribromophenol	7.30		mg/Kg wet	6.67		109	30-130			
Surrogate: Terphenyl-d14	2.79		mg/Kg wet	3.33		83.6	30-130			

LCS Dup (B014882-BS1)

Prepared: 06/14/10 Analyzed: 06/15/10

Acenaphthene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	3.03	30	
Acenaphthylene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140	2.40	30	
Acetophenone	0.690	0.34	mg/Kg wet	0.833		82.8	40-140	3.09	30	
Aniline	0.889	0.34	mg/Kg wet	1.67		53.3	10-140	5.04	50	† †
Anthracene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	3.90	30	
Benzo(a)anthracene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140	3.16	30	
Benzo(a)pyrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	3.89	30	
Benzo(b)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	0.438	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	7.90	30	
Benzo(k)fluoranthene	1.37	0.17	mg/Kg wet	1.67		82.4	40-140	3.76	30	
Bis(2-chloroethoxy)methane	1.44	0.34	mg/Kg wet	1.67		86.7	40-140	4.84	30	
Bis(2-chloroethyl)ether	1.48	0.34	mg/Kg wet	1.67		88.6	40-140	6.94	30	
Bis(2-chloroisopropyl)ether	1.76	0.34	mg/Kg wet	1.67		106	40-140	3.70	30	
Bis(2-Ethylhexyl)phthalate	1.69	0.34	mg/Kg wet	1.67		101	40-140	2.90	30	
4-Bromophenylphenylether	1.37	0.34	mg/Kg wet	1.67		82.0	40-140	6.03	30	
Butylbenzylphthalate	1.67	0.66	mg/Kg wet	1.67		100	40-140	1.19	30	
4-Chloroaniline	0.573	0.66	mg/Kg wet	1.67		34.4	10-140	0.464	30	†
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	4.41	30	
2-Chlorophenol	1.35	0.34	mg/Kg wet	1.67		81.0	30-130	4.62	30	
Chrysene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140	3.04	30	
Dibenz(a,h)anthracene	1.44	0.17	mg/Kg wet	1.67		86.3	40-140	7.50	30	
Dibenzofuran	1.48	0.34	mg/Kg wet	1.67		88.5	40-140	2.84	30	
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		92.7	40-140	2.53	30	
1,2-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	5.28	30	
1,3-Dichlorobenzene	1.18	0.34	mg/Kg wet	1.67		71.0	40-140	3.73	30	
1,4-Dichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	3.99	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014882 - SW-846 3546										
LCS Dup (B014882-BSD1) Prepared: 06/14/10 Analyzed: 06/15/10										
3,3-Dichlorobenzidine	0.894	0.17	mg/Kg wet	1.67		53.6	20-140	2.07	50	† ‡
2,4-Dichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.8	30-130	3.46	30	
Diethylphthalate	1.71	0.34	mg/Kg wet	1.67		102	40-140	2.39	30	
2,4-Dimethylphenol	1.51	0.34	mg/Kg wet	1.67		90.8	30-130	4.11	30	
Dimethylphthalate	1.62	0.66	mg/Kg wet	1.67		96.9	40-140	0.496	30	
2,4-Dinitrophenol	0.551	0.66	mg/Kg wet	1.67		33.0	30-130	42.4 *	30	R-05, V-19
2,4-Dinitrotoluene	1.66	0.34	mg/Kg wet	1.67		99.5	40-140	10.5	30	
2,6-Dinitrotoluene	1.60	0.34	mg/Kg wet	1.67		96.2	40-140	1.55	30	
Di-n-octylphthalate	1.69	0.66	mg/Kg wet	1.67		101	40-140	2.88	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.73	0.34	mg/Kg wet	1.67		104	40-140	8.31	30	
Fluoranthene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	3.98	30	
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140	1.21	30	
Hexachlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	6.39	30	
Hexachlorobutadiene	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	5.53	30	
Hexachloroethane	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	5.05	30	
Indeno(1,2,3-cd)pyrene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	7.40	30	
Isophorone	1.52	0.34	mg/Kg wet	1.67		91.2	40-140	3.19	30	
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	2.00	30	
2-Methylphenol	1.15	0.34	mg/Kg wet	1.67		69.1	30-130	4.29	30	
3/4-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130	4.30	30	
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	4.05	30	
Nitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.2	40-140	4.82	30	
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		81.3	30-130	5.18	30	
4-Nitrophenol	0.978	0.66	mg/Kg wet	1.67		58.7	30-130	15.2	50	‡
Pentachlorophenol	0.676	0.34	mg/Kg wet	1.67		40.5	30-130	24.7	30	
Phenanthrene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140	1.82	30	
Phenol	1.22	0.34	mg/Kg wet	1.67		73.0	30-130	3.83	30	
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.6	40-140	4.88	30	
1,2,4-Trichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.3	40-140	4.60	30	
2,4,5-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		74.0	30-130	1.18	30	
2,4,6-Trichlorophenol	1.35	0.34	mg/Kg wet	1.67		81.1	30-130	3.64	30	
Surrogate: 2-Fluorophenol	5.09		mg/Kg wet	6.67		76.4	30-130			
Surrogate: Phenol-d6	5.15		mg/Kg wet	6.67		77.3	30-130			
Surrogate: Nitrobenzene-d5	2.76		mg/Kg wet	3.33		82.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.29		mg/Kg wet	3.33		68.7	30-130			
Surrogate: 2,4,6-Tribromophenol	6.76		mg/Kg wet	6.67		101	30-130			
Surrogate: Terphenyl-d14	2.84		mg/Kg wet	3.33		85.1	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B014877 - SW-846 3546

Blank (B014877-BLK1)

Prepared: 06/14/10 Analyzed: 06/16/10

Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0030	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0030	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0080	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0080	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0080	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0080	mg/Kg wet							
Dieldrin	ND	0.0080	mg/Kg wet							
Dieldrin [2C]	ND	0.0080	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.180		mg/Kg wet	0.200		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.200		mg/Kg wet	0.200		99.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.213		mg/Kg wet	0.200		107	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B014877 - SW-846 3546

LCS (B014877-BS1)

Prepared: 06/14/10 Analyzed: 06/16/10

Aldrin	0.019	0.0050	mg/Kg wet	0.0200		93.6	40-140			
Aldrin [2C]	0.021	0.0050	mg/Kg wet	0.0200		103	40-140			
alpha-BHC	0.020	0.0050	mg/Kg wet	0.0200		98.2	40-140			
alpha-BHC [2C]	0.020	0.0050	mg/Kg wet	0.0200		102	40-140			
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		93.1	40-140			
beta-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.4	40-140			
delta-BHC	0.016	0.0050	mg/Kg wet	0.0200		80.5	40-140			
delta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		84.7	40-140			
gamma-BHC (Lindane)	0.020	0.0030	mg/Kg wet	0.0200		99.0	40-140			
gamma-BHC (Lindane) [2C]	0.020	0.0030	mg/Kg wet	0.0200		102	40-140			
4,4'-DDD	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
4,4'-DDD [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.7	40-140			
4,4'-DDE	0.020	0.0040	mg/Kg wet	0.0200		100	40-140			
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		96.0	40-140			
4,4'-DDT	0.022	0.0080	mg/Kg wet	0.0200		110	40-140			
4,4'-DDT [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.0	40-140			
Dieldrin	0.020	0.0080	mg/Kg wet	0.0200		102	40-140			
Dieldrin [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.5	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		95.5	40-140			
Endosulfan I [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.2	40-140			
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		102	40-140			
Endosulfan II [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.8	40-140			
Endosulfan Sulfate	0.023	0.0080	mg/Kg wet	0.0200		116	40-140			
Endosulfan Sulfate [2C]	0.018	0.0080	mg/Kg wet	0.0200		90.0	40-140			
Endrin	0.022	0.0080	mg/Kg wet	0.0200		108	40-140			
Endrin [2C]	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
Endrin Ketone	0.022	0.0080	mg/Kg wet	0.0200		108	40-140			
Endrin Ketone [2C]	0.018	0.0080	mg/Kg wet	0.0200		91.5	40-140			
Heptachlor	0.019	0.0050	mg/Kg wet	0.0200		96.7	40-140			
Heptachlor [2C]	0.021	0.0050	mg/Kg wet	0.0200		103	40-140			
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		98.7	40-140			
Heptachlor Epoxide [2C]	0.020	0.0050	mg/Kg wet	0.0200		98.4	40-140			
Hexachlorobenzene	0.019	0.0050	mg/Kg wet	0.0200		96.8	40-140			
Hexachlorobenzene [2C]	0.020	0.0050	mg/Kg wet	0.0200		97.6	40-140			
Methoxychlor	0.026	0.050	mg/Kg wet	0.0200		129	40-140			
Methoxychlor [2C]	0.020	0.050	mg/Kg wet	0.0200		102	40-140			
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.214		mg/Kg wet	0.200		107	30-150			

LCS Dup (B014877-BSD1)

Prepared: 06/14/10 Analyzed: 06/16/10

Aldrin	0.020	0.0050	mg/Kg wet	0.0200		101	40-140	7.46	30	
Aldrin [2C]	0.022	0.0050	mg/Kg wet	0.0200		111	40-140	7.49	30	
alpha-BHC	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	8.40	30	
alpha-BHC [2C]	0.022	0.0050	mg/Kg wet	0.0200		111	40-140	9.20	30	
beta-BHC	0.021	0.0050	mg/Kg wet	0.0200		103	40-140	9.86	30	
beta-BHC [2C]	0.021	0.0050	mg/Kg wet	0.0200		107	40-140	10.8	30	
delta-BHC	0.017	0.0050	mg/Kg wet	0.0200		87.4	40-140	8.22	30	
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.5	40-140	7.72	30	
gamma-BHC (Lindane)	0.021	0.0030	mg/Kg wet	0.0200		107	40-140	7.59	30	
gamma-BHC (Lindane) [2C]	0.022	0.0030	mg/Kg wet	0.0200		110	40-140	7.31	30	

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014877 - SW-846 3546										
LCS Dup (B014877-BSD1) Prepared: 06/14/10 Analyzed: 06/16/10										
4,4'-DDD	0.022	0.0080	mg/Kg wet	0.0200		108	40-140	7.39	30	
4,4'-DDD [2C]	0.020	0.0080	mg/Kg wet	0.0200		100	40-140	7.94	30	
4,4'-DDE	0.022	0.0040	mg/Kg wet	0.0200		108	40-140	7.47	30	
4,4'-DDE [2C]	0.021	0.0040	mg/Kg wet	0.0200		104	40-140	7.88	30	
4,4'-DDT	0.024	0.0080	mg/Kg wet	0.0200		118	40-140	6.96	30	
4,4'-DDT [2C]	0.021	0.0080	mg/Kg wet	0.0200		104	40-140	8.18	30	
Dieldrin	0.022	0.0080	mg/Kg wet	0.0200		110	40-140	7.13	30	
Dieldrin [2C]	0.021	0.0080	mg/Kg wet	0.0200		104	40-140	7.77	30	
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		102	40-140	6.88	30	
Endosulfan I [2C]	0.021	0.0050	mg/Kg wet	0.0200		104	40-140	7.52	30	
Endosulfan II	0.022	0.0080	mg/Kg wet	0.0200		109	40-140	6.87	30	
Endosulfan II [2C]	0.020	0.0080	mg/Kg wet	0.0200		102	40-140	8.24	30	
Endosulfan Sulfate	0.025	0.0080	mg/Kg wet	0.0200		125	40-140	7.82	30	
Endosulfan Sulfate [2C]	0.020	0.0080	mg/Kg wet	0.0200		97.8	40-140	8.22	30	
Endrin	0.023	0.0080	mg/Kg wet	0.0200		114	40-140	5.59	30	
Endrin [2C]	0.022	0.0080	mg/Kg wet	0.0200		108	40-140	7.20	30	
Endrin Ketone	0.023	0.0080	mg/Kg wet	0.0200		116	40-140	7.10	30	
Endrin Ketone [2C]	0.020	0.0080	mg/Kg wet	0.0200		100	40-140	9.15	30	
Heptachlor	0.021	0.0050	mg/Kg wet	0.0200		104	40-140	7.56	30	
Heptachlor [2C]	0.022	0.0050	mg/Kg wet	0.0200		112	40-140	8.34	30	
Heptachlor Epoxide	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	7.41	30	
Heptachlor Epoxide [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	7.58	30	
Hexachlorobenzene	0.021	0.0050	mg/Kg wet	0.0200		105	40-140	7.92	30	
Hexachlorobenzene [2C]	0.021	0.0050	mg/Kg wet	0.0200		106	40-140	8.05	30	
Methoxychlor	0.028	0.050	mg/Kg wet	0.0200		138	40-140	6.56	30	
Methoxychlor [2C]	0.022	0.050	mg/Kg wet	0.0200		112	40-140	8.93	30	
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.216		mg/Kg wet	0.200		108	30-150			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014878 - SW-846 3546										
Blank (B014878-BLK1)										
Prepared: 06/14/10 Analyzed: 06/16/10										
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.258		mg/Kg wet	0.200		129	30-150			
Surrogate: Tetrachloro-m-xylene	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.247		mg/Kg wet	0.200		124	30-150			
LCS (B014878-BS1)										
Prepared: 06/14/10 Analyzed: 06/17/10										
Aroclor-1016	0.052	0.020	mg/Kg wet	0.0500		105	40-140			
Aroclor-1016 [2C]	0.055	0.020	mg/Kg wet	0.0500		111	40-140			
Aroclor-1260	0.057	0.020	mg/Kg wet	0.0500		114	40-140			
Aroclor-1260 [2C]	0.055	0.020	mg/Kg wet	0.0500		110	40-140			
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.233		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.234		mg/Kg wet	0.200		117	30-150			
LCS Dup (B014878-BS1)										
Prepared: 06/14/10 Analyzed: 06/17/10										
Aroclor-1016	0.055	0.020	mg/Kg wet	0.0500		110	40-140	4.45	30	
Aroclor-1016 [2C]	0.059	0.020	mg/Kg wet	0.0500		118	40-140	5.71	30	
Aroclor-1260	0.054	0.020	mg/Kg wet	0.0500		107	40-140	5.57	30	
Aroclor-1260 [2C]	0.061	0.020	mg/Kg wet	0.0500		122	40-140	10.7	30	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.239		mg/Kg wet	0.200		119	30-150			
Surrogate: Tetrachloro-m-xylene	0.209		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.245		mg/Kg wet	0.200		123	30-150			



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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014881 - SW-846 3546										
Blank (B014881-BLK1)										
					Prepared: 06/14/10 Analyzed: 06/16/10					
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	4.24		mg/Kg wet	5.00		84.7	40-140			
Surrogate: o-Terphenyl (OTP)	4.88		mg/Kg wet	5.00		97.5	40-140			
Surrogate: 2-Bromonaphthalene	5.68		mg/Kg wet	5.00		114	40-140			
Surrogate: 2-Fluorobiphenyl	5.55		mg/Kg wet	5.00		111	40-140			
LCS (B014881-BS1)										
					Prepared: 06/14/10 Analyzed: 06/16/10					
C9-C18 Aliphatics	25.5	10	mg/Kg wet	30.0		84.9	40-140			
C19-C36 Aliphatics	41.2	10	mg/Kg wet	40.0		103	40-140			
Unadjusted C11-C22 Aromatics	95.2	10	mg/Kg wet	85.0		112	40-140			
Acenaphthene	4.88	0.10	mg/Kg wet	5.00		97.7	40-140			
Acenaphthylene	4.98	0.10	mg/Kg wet	5.00		99.6	40-140			
Anthracene	5.30	0.10	mg/Kg wet	5.00		106	40-140			
Benzo(a)anthracene	5.56	0.10	mg/Kg wet	5.00		111	40-140			
Benzo(a)pyrene	5.21	0.10	mg/Kg wet	5.00		104	40-140			
Benzo(b)fluoranthene	5.50	0.10	mg/Kg wet	5.00		110	40-140			
Benzo(g,h,i)perylene	5.34	0.10	mg/Kg wet	5.00		107	40-140			
Benzo(k)fluoranthene	5.38	0.10	mg/Kg wet	5.00		108	40-140			
Chrysene	5.22	0.10	mg/Kg wet	5.00		104	40-140			
Dibenz(a,h)anthracene	5.32	0.10	mg/Kg wet	5.00		106	40-140			
Fluoranthene	5.27	0.10	mg/Kg wet	5.00		105	40-140			
Fluorene	5.13	0.10	mg/Kg wet	5.00		103	40-140			
Indeno(1,2,3-cd)pyrene	5.30	0.10	mg/Kg wet	5.00		106	40-140			
2-Methylnaphthalene	4.85	0.10	mg/Kg wet	5.00		96.9	40-140			
Naphthalene	4.55	0.10	mg/Kg wet	5.00		90.9	40-140			
Phenanthrene	5.21	0.10	mg/Kg wet	5.00		104	40-140			
Pyrene	5.47	0.10	mg/Kg wet	5.00		109	40-140			
n-Nonane	2.50	0.10	mg/Kg wet	5.00		49.9	30-140			
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	4.28		mg/Kg wet	5.00		85.7	40-140			
Surrogate: o-Terphenyl (OTP)	5.33		mg/Kg wet	5.00		107	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B014881 - SW-846 3546

LCS (B014881-BS1)

Prepared: 06/14/10 Analyzed: 06/16/10

Surrogate: 2-Bromonaphthalene	5.95		mg/Kg wet	5.00		119	40-140			
Surrogate: 2-Fluorobiphenyl	5.79		mg/Kg wet	5.00		116	40-140			

LCS Dup (B014881-BS1D)

Prepared: 06/14/10 Analyzed: 06/16/10

C9-C18 Aliphatics	25.8	10	mg/Kg wet	30.0		86.1	40-140	1.38	25	
C19-C36 Aliphatics	41.5	10	mg/Kg wet	40.0		104	40-140	0.771	25	
Unadjusted C11-C22 Aromatics	94.0	10	mg/Kg wet	85.0		111	40-140	1.21	25	
Acenaphthene	4.80	0.10	mg/Kg wet	5.00		95.9	40-140	1.82	25	
Acenaphthylene	4.90	0.10	mg/Kg wet	5.00		98.0	40-140	1.62	25	
Anthracene	5.15	0.10	mg/Kg wet	5.00		103	40-140	2.85	25	
Benzo(a)anthracene	5.45	0.10	mg/Kg wet	5.00		109	40-140	1.99	25	
Benzo(a)pyrene	5.10	0.10	mg/Kg wet	5.00		102	40-140	2.27	25	
Benzo(b)fluoranthene	5.39	0.10	mg/Kg wet	5.00		108	40-140	1.94	25	
Benzo(g,h,i)perylene	5.17	0.10	mg/Kg wet	5.00		103	40-140	3.27	25	
Benzo(k)fluoranthene	5.26	0.10	mg/Kg wet	5.00		105	40-140	2.23	25	
Chrysene	5.10	0.10	mg/Kg wet	5.00		102	40-140	2.20	25	
Dibenz(a,h)anthracene	5.15	0.10	mg/Kg wet	5.00		103	40-140	3.24	25	
Fluoranthene	5.15	0.10	mg/Kg wet	5.00		103	40-140	2.43	25	
Fluorene	4.98	0.10	mg/Kg wet	5.00		99.6	40-140	2.86	25	
Indeno(1,2,3-cd)pyrene	5.15	0.10	mg/Kg wet	5.00		103	40-140	2.87	25	
2-Methylnaphthalene	4.78	0.10	mg/Kg wet	5.00		95.6	40-140	1.41	25	
Naphthalene	4.51	0.10	mg/Kg wet	5.00		90.3	40-140	0.713	25	
Phenanthrene	5.07	0.10	mg/Kg wet	5.00		101	40-140	2.68	25	
Pyrene	5.34	0.10	mg/Kg wet	5.00		107	40-140	2.34	25	
n-Nonane	2.54	0.10	mg/Kg wet	5.00		50.8	30-140	1.80	25	
Naphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	0.00		mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	4.18		mg/Kg wet	5.00		83.5	40-140			
Surrogate: o-Terphenyl (OTP)	5.11		mg/Kg wet	5.00		102	40-140			
Surrogate: 2-Bromonaphthalene	5.70		mg/Kg wet	5.00		114	40-140			
Surrogate: 2-Fluorobiphenyl	5.56		mg/Kg wet	5.00		111	40-140			

Matrix Spike (B014881-MS1)

Source: 10F0335-01

Prepared: 06/14/10 Analyzed: 06/16/10

C9-C18 Aliphatics	28.3	22	mg/Kg dry	33.3	6.64	65.1	40-140			
C19-C36 Aliphatics	55.9	22	mg/Kg dry	44.4	17.6	86.4	40-140			
Unadjusted C11-C22 Aromatics	126	22	mg/Kg dry	94.3	32.9	98.4	40-140			
Acenaphthene	4.49	0.22	mg/Kg dry	5.55	0.00	80.9	40-140			
Acenaphthylene	4.60	0.22	mg/Kg dry	5.55	0.00	82.9	40-140			
Anthracene	4.81	0.22	mg/Kg dry	5.55	0.00	86.6	40-140			
Benzo(a)anthracene	5.54	0.22	mg/Kg dry	5.55	0.480	91.2	40-140			
Benzo(a)pyrene	5.25	0.22	mg/Kg dry	5.55	0.557	84.6	40-140			
Benzo(b)fluoranthene	5.67	0.22	mg/Kg dry	5.55	0.727	89.0	40-140			
Benzo(g,h,i)perylene	5.21	0.22	mg/Kg dry	5.55	0.451	85.8	40-140			
Benzo(k)fluoranthene	5.10	0.22	mg/Kg dry	5.55	0.255	87.2	40-140			
Chrysene	5.26	0.22	mg/Kg dry	5.55	0.529	85.2	40-140			
Dibenz(a,h)anthracene	4.74	0.22	mg/Kg dry	5.55	0.00	85.4	40-140			
Fluoranthene	5.77	0.22	mg/Kg dry	5.55	0.858	88.5	40-140			
Fluorene	4.77	0.22	mg/Kg dry	5.55	0.00	85.9	40-140			
Indeno(1,2,3-cd)pyrene	5.08	0.22	mg/Kg dry	5.55	0.352	85.2	40-140			
2-Methylnaphthalene	4.44	0.22	mg/Kg dry	5.55	0.00	79.9	40-140			
Naphthalene	4.16	0.22	mg/Kg dry	5.55	0.00	74.9	40-140			
Phenanthrene	5.30	0.22	mg/Kg dry	5.55	0.380	88.7	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B014881 - SW-846 3546

Matrix Spike (B014881-MS1)	Source: 10F0335-01			Prepared: 06/14/10 Analyzed: 06/16/10						
Pyrene	6.00	0.22	mg/Kg dry	5.55	0.905	91.8	40-140			
n-Nonane	2.52	0.22	mg/Kg dry	5.55	0.00	45.5	30-140			
Surrogate: Chlorooctadecane (COD)	3.42		mg/Kg dry	5.55		61.7	40-140			
Surrogate: o-Terphenyl (OTP)	4.65		mg/Kg dry	5.55		83.7	40-140			
Surrogate: 2-Bromonaphthalene	6.12		mg/Kg dry	5.55		110	40-140			
Surrogate: 2-Fluorobiphenyl	5.95		mg/Kg dry	5.55		107	40-140			

Matrix Spike Dup (B014881-MSD1)	Source: 10F0335-01			Prepared: 06/14/10 Analyzed: 06/17/10						
C9-C18 Aliphatics	29.7	22	mg/Kg dry	33.3	6.64	69.3	40-140	4.83	50	
C19-C36 Aliphatics	55.1	22	mg/Kg dry	44.4	17.6	84.6	40-140	1.49	50	
Unadjusted C11-C22 Aromatics	130	22	mg/Kg dry	94.3	32.9	103	40-140	3.50	50	
Acenaphthene	5.10	0.22	mg/Kg dry	5.55	0.00	91.8	40-140	12.7	50	
Acenaphthylene	5.28	0.22	mg/Kg dry	5.55	0.00	95.2	40-140	13.8	50	
Anthracene	5.47	0.22	mg/Kg dry	5.55	0.00	98.6	40-140	12.9	50	
Benzo(a)anthracene	6.24	0.22	mg/Kg dry	5.55	0.480	104	40-140	12.0	50	
Benzo(a)pyrene	5.96	0.22	mg/Kg dry	5.55	0.557	97.3	40-140	12.5	50	
Benzo(b)fluoranthene	6.41	0.22	mg/Kg dry	5.55	0.727	102	40-140	12.3	50	
Benzo(g,h,i)perylene	5.85	0.22	mg/Kg dry	5.55	0.451	97.3	40-140	11.5	50	
Benzo(k)fluoranthene	5.82	0.22	mg/Kg dry	5.55	0.255	100	40-140	13.2	50	
Chrysene	5.92	0.22	mg/Kg dry	5.55	0.529	97.2	40-140	11.9	50	
Dibenz(a,h)anthracene	5.46	0.22	mg/Kg dry	5.55	0.00	98.4	40-140	14.1	50	
Fluoranthene	6.42	0.22	mg/Kg dry	5.55	0.858	100	40-140	10.6	50	
Fluorene	5.42	0.22	mg/Kg dry	5.55	0.00	97.6	40-140	12.8	50	
Indeno(1,2,3-cd)pyrene	5.82	0.22	mg/Kg dry	5.55	0.352	98.5	40-140	13.6	50	
2-Methylnaphthalene	5.04	0.22	mg/Kg dry	5.55	0.00	90.9	40-140	12.8	50	
Naphthalene	4.66	0.22	mg/Kg dry	5.55	0.00	83.9	40-140	11.4	50	
Phenanthrene	5.76	0.22	mg/Kg dry	5.55	0.380	97.0	40-140	8.34	50	
Pyrene	6.67	0.22	mg/Kg dry	5.55	0.905	104	40-140	10.5	50	
n-Nonane	2.46	0.22	mg/Kg dry	5.55	0.00	44.2	30-140	2.72	50	
Surrogate: Chlorooctadecane (COD)	3.77		mg/Kg dry	5.55		67.8	40-140			
Surrogate: o-Terphenyl (OTP)	5.37		mg/Kg dry	5.55		96.8	40-140			
Surrogate: 2-Bromonaphthalene	6.17		mg/Kg dry	5.55		111	40-140			
Surrogate: 2-Fluorobiphenyl	6.00		mg/Kg dry	5.55		108	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014886 - MA VPH										
Blank (B014886-BLK1)										
Prepared & Analyzed: 06/14/10										
Unadjusted C5-C8 Aliphatics	ND	11	mg/Kg wet							
C5-C8 Aliphatics	ND	11	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	11	mg/Kg wet							
C9-C12 Aliphatics	ND	11	mg/Kg wet							
C9-C10 Aromatics	ND	11	mg/Kg wet							
Benzene	ND	0.053	mg/Kg wet							
Butylcyclohexane	ND	0.053	mg/Kg wet							
Decane	ND	0.053	mg/Kg wet							
Ethylbenzene	ND	0.053	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.053	mg/Kg wet							
2-Methylpentane	ND	0.053	mg/Kg wet							
Naphthalene	ND	0.53	mg/Kg wet							
Nonane	ND	0.053	mg/Kg wet							
Pentane	ND	0.053	mg/Kg wet							
Toluene	ND	0.053	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.053	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.053	mg/Kg wet							
m+p Xylene	ND	0.11	mg/Kg wet							
o-Xylene	ND	0.053	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	2.76		mg/Kg wet	3.33		82.9	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	2.77		mg/Kg wet	3.33		83.0	70-130			
LCS (B014886-BS1)										
Prepared & Analyzed: 06/14/10										
Benzene	6.44	0.057	mg/Kg wet	6.67		96.6	70-130			
Butylcyclohexane	4.71	0.057	mg/Kg wet	6.67		70.6	70-130			
Decane	4.95	0.057	mg/Kg wet	6.67		74.3	70-130			
Ethylbenzene	6.17	0.057	mg/Kg wet	6.67		92.5	70-130			
Methyl tert-Butyl Ether (MTBE)	6.22	0.057	mg/Kg wet	6.67		93.3	70-130			
2-Methylpentane	5.47	0.057	mg/Kg wet	6.67		82.1	70-130			
Naphthalene	5.67	0.57	mg/Kg wet	6.67		85.0	70-130			
Nonane	4.80	0.057	mg/Kg wet	6.67		72.1	30-130			
Pentane	5.83	0.057	mg/Kg wet	6.67		87.4	70-130			
Toluene	6.36	0.057	mg/Kg wet	6.67		95.4	70-130			
1,2,4-Trimethylbenzene	5.84	0.057	mg/Kg wet	6.67		87.5	70-130			
2,2,4-Trimethylpentane	5.29	0.057	mg/Kg wet	6.67		79.4	70-130			
m+p Xylene	12.4	0.11	mg/Kg wet	13.3		93.0	70-130			
o-Xylene	6.38	0.057	mg/Kg wet	6.67		95.6	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	3.18		mg/Kg wet	3.33		95.3	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	3.12		mg/Kg wet	3.33		93.6	70-130			
LCS Dup (B014886-BSD1)										
Prepared & Analyzed: 06/14/10										
Benzene	6.27	0.057	mg/Kg wet	6.67		94.1	70-130	2.62	25	
Butylcyclohexane	4.77	0.057	mg/Kg wet	6.67		71.5	70-130	1.28	25	
Decane	5.01	0.057	mg/Kg wet	6.67		75.1	70-130	1.08	25	
Ethylbenzene	6.08	0.057	mg/Kg wet	6.67		91.2	70-130	1.36	25	
Methyl tert-Butyl Ether (MTBE)	6.07	0.057	mg/Kg wet	6.67		91.0	70-130	2.54	25	
2-Methylpentane	5.26	0.057	mg/Kg wet	6.67		78.9	70-130	3.97	25	
Naphthalene	6.25	0.57	mg/Kg wet	6.67		93.7	70-130	9.69	25	
Nonane	4.90	0.057	mg/Kg wet	6.67		73.5	30-130	2.02	25	
Pentane	5.73	0.057	mg/Kg wet	6.67		86.0	70-130	1.70	25	
Toluene	6.24	0.057	mg/Kg wet	6.67		93.6	70-130	1.87	25	
1,2,4-Trimethylbenzene	5.81	0.057	mg/Kg wet	6.67		87.1	70-130	0.456	25	

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014886 - MA VPH										
LCS Dup (B014886-BSD1)										
Prepared & Analyzed: 06/14/10										
2,2,4-Trimethylpentane	5.39	0.057	mg/Kg wet	6.67		80.8	70-130	1.77	25	
m+p Xylene	12.3	0.11	mg/Kg wet	13.3		92.1	70-130	1.05	25	
o-Xylene	6.31	0.057	mg/Kg wet	6.67		94.7	70-130	1.01	25	
Surrogate: 2,5-Dibromotoluene (FID)	3.59		mg/Kg wet	3.33		108	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	3.45		mg/Kg wet	3.33		103	70-130			



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B014875 - SW-846 3050B										
Blank (B014875-BLK1) Prepared & Analyzed: 06/14/10										
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B014875-BS1) Prepared & Analyzed: 06/14/10										
Arsenic	113	5.0	mg/Kg wet	107		105	81.6-118.4			
Barium	350	5.0	mg/Kg wet	331		106	80.7-119.3			
Cadmium	250	0.50	mg/Kg wet	244		102	82.4-117.6			
Chromium	84.9	1.0	mg/Kg wet	80.6		105	78.8-120.7			
Lead	103	1.5	mg/Kg wet	107		95.8	79.1-120.3			
Selenium	187	10	mg/Kg wet	177		105	78.4-120.9			
Silver	44.2	1.0	mg/Kg wet	46.2		95.7	66.2-133.6			
LCS (B014875-BS2) Prepared & Analyzed: 06/14/10										
Lead	0.781	0.75	mg/Kg wet	0.747		105	79.1-120.3			
LCS Dup (B014875-BSD1) Prepared & Analyzed: 06/14/10										
Arsenic	110	5.0	mg/Kg wet	107		103	81.6-118.4	2.71	30	
Barium	341	5.0	mg/Kg wet	331		103	80.7-119.3	2.70	30	
Cadmium	242	0.50	mg/Kg wet	244		99.2	82.4-117.6	3.13	30	
Chromium	81.7	1.0	mg/Kg wet	80.5		101	78.8-120.7	3.78	30	
Lead	104	1.5	mg/Kg wet	107		96.9	79.1-120.3	1.02	30	
Selenium	183	10	mg/Kg wet	177		103	78.4-120.9	2.07	30	
Silver	43.6	1.0	mg/Kg wet	46.2		94.5	66.2-133.6	1.34	30	
Batch B014890 - SW-846 7471A										
Blank (B014890-BLK1) Prepared: 06/14/10 Analyzed: 06/15/10										
Mercury	ND	0.025	mg/Kg wet							
LCS (B014890-BS1) Prepared: 06/14/10 Analyzed: 06/15/10										
Mercury	1.17	0.025	mg/Kg wet	0.990		118	66-132			
LCS Dup (B014890-BSD1) Prepared: 06/14/10 Analyzed: 06/15/10										
Mercury	1.11	0.025	mg/Kg wet	0.919		121	66-132	5.64	30	



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BREAKDOWN REPORT

Lab Sample ID: S000372-PEM1 Analyzed: 06/16/2010

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.00
Endrin [1]	2.60

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.00
Endrin [2]	1.47

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.
- 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.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
 - V-19 Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA
C19-C36 Aliphatics	CT,NC,WA
Unadjusted C11-C22 Aromatics	CT,NC,WA
C11-C22 Aromatics	CT,NC,WA
Acenaphthene	CT,NC,WA
Acenaphthylene	CT,NC,WA
Anthracene	CT,NC,WA
Benzo(a)anthracene	CT,NC,WA
Benzo(a)pyrene	CT,NC,WA
Benzo(b)fluoranthene	CT,NC,WA
Benzo(g,h,i)perylene	CT,NC,WA
Benzo(k)fluoranthene	CT,NC,WA
Chrysene	CT,NC,WA
Dibenz(a,h)anthracene	CT,NC,WA
Fluoranthene	CT,NC,WA
Fluorene	CT,NC,WA
Indeno(1,2,3-cd)pyrene	CT,NC,WA
2-Methylnaphthalene	CT,NC,WA
Naphthalene	CT,NC,WA
Phenanthrene	CT,NC,WA
Pyrene	CT,NC,WA
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA
C5-C8 Aliphatics	CT,NC,WA
Unadjusted C9-C12 Aliphatics	CT,NC,WA
C9-C12 Aliphatics	CT,NC,WA
C9-C10 Aromatics	CT,NC,WA
Benzene	CT,NC,WA
Ethylbenzene	CT,NC,WA
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA
Naphthalene	CT,NC,WA
Toluene	CT,NC,WA
m+p Xylene	CT,NC,WA
o-Xylene	CT,NC,WA
SW-846 6010B in Soil	
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Selenium	CT,NH,NY
Silver	CT,NH,NY
SW-846 7471A in Soil	
Mercury	CT,NH,NY
SW-846 8081A in Product/Solid	

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081A in Product/Solid</i>	
Aldrin	CT,NC,NH,NY
Aldrin [2C]	CT,NC,NH,NY
alpha-BHC	CT,NC,NH,NY
alpha-BHC [2C]	CT,NC,NH,NY
beta-BHC	CT,NC,NH,NY
beta-BHC [2C]	CT,NC,NH,NY
delta-BHC	CT,NC,NH,NY
delta-BHC [2C]	CT,NC,NH,NY
gamma-BHC (Lindane)	CT,NC,NH,NY
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY
Chlordane	CT,NC,NH,NY
Chlordane [2C]	CT,NC,NH,NY
4,4'-DDD	CT,NC,NH,NY
4,4'-DDD [2C]	CT,NC,NH,NY
4,4'-DDE	CT,NC,NH,NY
4,4'-DDE [2C]	CT,NC,NH,NY
4,4'-DDT	CT,NC,NH,NY
4,4'-DDT [2C]	CT,NC,NH,NY
Dieldrin	CT,NC,NH,NY
Dieldrin [2C]	CT,NC,NH,NY
Endosulfan I	CT,NC,NH,NY
Endosulfan I [2C]	CT,NC,NH,NY
Endosulfan II	CT,NC,NH,NY
Endosulfan II [2C]	CT,NC,NH,NY
Endosulfan Sulfate	CT,NC,NH,NY
Endosulfan Sulfate [2C]	CT,NC,NH,NY
Endrin	CT,NC,NH,NY
Endrin [2C]	CT,NC,NH,NY
Heptachlor	CT,NC,NH,NY
Heptachlor [2C]	CT,NC,NH,NY
Heptachlor Epoxide	CT,NC,NH,NY
Heptachlor Epoxide [2C]	CT,NC,NH,NY
Hexachlorobenzene	NH
Hexachlorobenzene [2C]	NH
Methoxychlor	CT,NC,NH,NY
Methoxychlor [2C]	CT,NC,NH,NY
<i>SW-846 8081A in Soil</i>	
Aldrin	CT,NC,NH,NY
Aldrin [2C]	CT,NC,NH,NY
alpha-BHC	CT,NC,NH,NY
alpha-BHC [2C]	CT,NC,NH,NY
beta-BHC	CT,NC,NH,NY
beta-BHC [2C]	CT,NC,NH,NY
delta-BHC	CT,NC,NH,NY
delta-BHC [2C]	CT,NC,NH,NY
gamma-BHC (Lindane)	CT,NC,NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081A in Soil	
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY
Chlordane	CT,NC,NH,NY
Chlordane [2C]	CT,NC,NH,NY
4,4'-DDD	CT,NC,NH,NY
4,4'-DDD [2C]	CT,NC,NH,NY
4,4'-DDE	CT,NC,NH,NY
4,4'-DDE [2C]	CT,NC,NH,NY
4,4'-DDT	CT,NC,NH,NY
4,4'-DDT [2C]	CT,NC,NH,NY
Dieldrin	CT,NC,NH,NY
Dieldrin [2C]	CT,NC,NH,NY
Endosulfan I	CT,NC,NH,NY
Endosulfan I [2C]	CT,NC,NH,NY
Endosulfan II	CT,NC,NH,NY
Endosulfan II [2C]	CT,NC,NH,NY
Endosulfan Sulfate	CT,NC,NH,NY
Endosulfan Sulfate [2C]	CT,NC,NH,NY
Endrin	CT,NC,NH,NY
Endrin [2C]	CT,NC,NH,NY
Heptachlor	CT,NC,NH,NY
Heptachlor [2C]	CT,NC,NH,NY
Heptachlor Epoxide	CT,NC,NH,NY
Heptachlor Epoxide [2C]	CT,NC,NH,NY
Hexachlorobenzene	NH
Hexachlorobenzene [2C]	NH
Methoxychlor	CT,NC,NH,NY
Methoxychlor [2C]	CT,NC,NH,NY
SW-846 8082 in Soil	
Aroclor-1016	CT,NH,NY
Aroclor-1016 [2C]	CT,NH,NY
Aroclor-1221	CT,NH,NY
Aroclor-1221 [2C]	CT,NH,NY
Aroclor-1232	CT,NH,NY
Aroclor-1232 [2C]	CT,NH,NY
Aroclor-1242	CT,NH,NY
Aroclor-1242 [2C]	CT,NH,NY
Aroclor-1248	CT,NH,NY
Aroclor-1248 [2C]	CT,NH,NY
Aroclor-1254	CT,NH,NY
Aroclor-1254 [2C]	CT,NH,NY
Aroclor-1260	CT,NH,NY
Aroclor-1260 [2C]	CT,NH,NY
SW-846 8260B in Soil	
Acetone	CT,NH,NY
Benzene	CT,NH,NY
Bromobenzene	NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
Bromochloromethane	NH,NY
Bromodichloromethane	CT,NH,NY
Bromoform	CT,NH,NY
Bromomethane	CT,NH,NY
2-Butanone (MEK)	CT,NH,NY
n-Butylbenzene	CT,NH,NY
sec-Butylbenzene	CT,NH,NY
tert-Butylbenzene	CT,NH,NY
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY
Chlorobenzene	CT,NH,NY
Chlorodibromomethane	CT,NH,NY
Chloroethane	CT,NH,NY
Chloroform	CT,NH,NY
Chloromethane	CT,NH,NY
2-Chlorotoluene	CT,NH,NY
4-Chlorotoluene	CT,NH,NY
Dibromomethane	NH,NY
1,2-Dichlorobenzene	CT,NH,NY
1,3-Dichlorobenzene	CT,NH,NY
1,4-Dichlorobenzene	CT,NH,NY
Dichlorodifluoromethane (Freon 12)	NY
1,1-Dichloroethane	CT,NH,NY
1,2-Dichloroethane	CT,NH,NY
1,1-Dichloroethylene	CT,NH,NY
cis-1,2-Dichloroethylene	CT,NH,NY
trans-1,2-Dichloroethylene	CT,NH,NY
1,2-Dichloropropane	CT,NH,NY
1,3-Dichloropropane	NH,NY
2,2-Dichloropropane	NH,NY
1,1-Dichloropropene	NH,NY
cis-1,3-Dichloropropene	CT,NH,NY
trans-1,3-Dichloropropene	CT,NH,NY
Ethylbenzene	CT,NH,NY
Hexachlorobutadiene	NH,NY
2-Hexanone (MBK)	CT,NH,NY
Isopropylbenzene (Cumene)	CT,NH,NY
Methylene Chloride	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY
Styrene	CT,NH,NY
1,1,1,2-Tetrachloroethane	CT,NH,NY
1,1,2,2-Tetrachloroethane	CT,NH,NY
Tetrachloroethylene	CT,NH,NY
Toluene	CT,NH,NY
1,2,4-Trichlorobenzene	NH,NY
1,1,1-Trichloroethane	CT,NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
1,1,2-Trichloroethane	CT,NH,NY
Trichloroethylene	CT,NH,NY
Trichlorofluoromethane (Freon 11)	CT,NH,NY
1,2,3-Trichloropropane	NH,NY
1,2,4-Trimethylbenzene	CT,NH,NY
1,3,5-Trimethylbenzene	CT,NH,NY
Vinyl Chloride	CT,NH,NY
m+p Xylene	CT,NH,NY
o-Xylene	CT,NH,NY
<i>SW-846 8270C in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270C in Soil</i>	
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2010
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011



ANALYTICAL LABORATORY
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: TRC

Address: 650 Suffolk Street

Attention: David Sullivan

Project Location: City of New Bedford

Sampled By: Jeff Saunders

Project Proposal Provided? (for billing purposes)
 Yes 2007 proposal date

Telephone: 978-656-3565

Project # 115058

Client PO# Unknown

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Email: dsullivan@contestlabs.com

Format: PDF EXCEL XLS

Collection: "Enhanced Data Package"

Con-Test Lab ID 01

Client Sample ID / Description Med-Soil-1

Beginning Date/Time 6/1/10

Ending Date/Time 06/10

Composite

Grab 5

Matrix Code L

Conc. Code L

VOLs (8260B)

SVOLs (8270C)

PCBs (8082)

EPH (Mass DEP)

VPH (Mass DEP)

RCRA-8 Metals (6010B/7471A)

Pesticides/Herbicides (8081A/8081B)

Turnaround 7-Day

10-Day

Other 5 day

12-Hr 14-Day

172-Hr 14-Day

of Containers 3

** Preservation 0

*** Container Code 0

Dissolved Metals 0

Field Filtered

Lab to Filter

***Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V= vial

S=Summa can

T=tetlar bag

O=Other

**Preservation

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

X = Na hydroxide

T = Na thiosulfate

O = Other

*Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

Comments: * VOCs & VPH bottles labeled on cap as pre-washed
** SVOLs, PCBs, EPH, Metals & Pesticides/Herbicides within three (3)
amber bottles

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 5.1/5.2/5.3

Is your project MCP or RCP?

MCP Analytical Certification Form Required

RCP Analysis Certification Form Required

MA State DW Form Required PWSID # _____



NELAC & AIHA Certified
WB/DBE Certified

TURNAROUND TIME (business days) 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.

Sample Receipt Checklist

CLIENT NAME: TRC MA RECEIVED BY: KA DATE: 6/1/10

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 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

Temperature °C by Temp blank 3°C 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 samples "On Hold"? Yes No Stored where:

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

8) Location where samples are stored: 19/17

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

Containers sent in to 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)	3	2 oz amber/clear jar	1
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	4	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water 2
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:
06-11-10 17:09 OUT

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

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

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 10F0335
Project Location: City of New Bedford	MADEP RTN ¹ :

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
 10F0335-01

Sample Matrices: Soil

MCP SW-846 Methods Used	8260B (X)	8151A ()	8330 ()	6010B (X)	7470A/1A (X)
	8270C (X)	8081A (X)	VPH (X)	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 (X)	8021B ()	EPH (X)	7000 S ³ ()	7196A ()

1 List Release Tracking Number (RTN), if known
 2 M -- SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
 3 S – SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status


A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹All 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: Laboratory Manager
Printed Name: Daren J. Damboragian	Date: 06/18/10

Gilson Aspec XL4 Fractionation Check

Silica Gel Lot: S212-49
 Frac Check Lot: 110309 PJG
 Hexane Lot: 49190
 DCM Lot: DA121
 Acetone Lot: 49170

Vendor: PHENOMENEX
 Amount of DCM Collected: 5000 µL
 Amount of Hexane Collected: 1800 µL

Data File: 110409 D1104015/D1104016

<u>Compound</u>	<u>Conc. (ppm)</u>	<u>Rec.</u>	<u>% Rec.</u>	<u>Limits</u>
Naphthalene	50	34.608	69%	40-140
2-Methylnaphthalene	50	36.758	74%	40-140
Acenaphthalene	50	39.091	78%	40-140
Acenaphthene	50	37.140	74%	40-140
Fluorene	50	40.427	81%	40-140
Phenanthrene	50	42.167	84%	40-140
Anthracene	50	45.050	90%	40-140
o-Terphenyl (surr.)	50	41.987	84%	40-140
Fluoranthene	50	45.589	91%	40-140
Pyrene	50	47.349	95%	40-140
Benzo(a)anthracene	50	47.330	95%	40-140
Chrysene	50	48.575	97%	40-140
Benzo(b)fluoranthene	50	48.579	97%	40-140
Benzo(k)fluoranthene	50	47.442	95%	40-140
Benzo(a)pyrene	50	46.136	92%	40-140
Indeno(123cd)pyrene	50	45.379	91%	40-140
Dibenzo(ah)anthracene	50	46.058	92%	40-140
Benzo(ghi)perylene	50	46.349	93%	40-140
C9	50	26.223	52%	30-140
C10	50	31.746	63%	40-140
C12	50	34.423	69%	40-140
C14	50	39.479	79%	40-140
C16	50	43.992	88%	40-140
C18	50	47.810	96%	40-140
C19	50	48.635	97%	40-140
C20	50	50.586	101%	40-140
1-Chloro-octadecane (surr.)	50	38.510	77%	40-140
C22	50	51.286	103%	40-140
C24	50	51.409	103%	40-140
C26	50	53.537	107%	40-140
C28	50	52.366	105%	40-140
C30	50	52.300	105%	40-140
C36	50	51.587	103%	40-140
Fractionation Surrogates				
2-Fluorobiphenyl	50	48.999	98%	40-140
2-Bromonaphthalene	50	46.149	92%	40-140
Aliphatic bleed thru			% (<5%)	
Naphthalene	0		0.000	
2-Methylnaphthalene	0		0.000	

June 28, 2010

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: City of New Bedford
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 10F0386

Enclosed are results of analyses for samples received by the laboratory on June 11, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager



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

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

REPORT DATE: 6/28/2010

PURCHASE ORDER NUMBER: 24747

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10F0386

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

PROJECT LOCATION: City of New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Med-Soil-1	10F0386-01	Soil		SW-846 8151	MA M-MA-086/CT PH-0574/NY11148

CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager



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

Project Location: City of New Bedford

Sample Description:

Work Order: 10F0386

Date Received: 6/11/2010

Sampled: 6/11/2010 09:40

Field Sample #: Med-Soil-1

Sample ID: 10F0386-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
2,4-DB	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
2,4,5-TP (Silvex)	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
2,4,5-T	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dalapon	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dicamba	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dichloroprop	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Dinoseb	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
MCPA	ND	3600	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
MCPP	ND	3600	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
4-Nitrophenol	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Pentachlorophenol	ND	36	µg/Kg	1		SW-846 8151	6/18/10	6/22/10 0:00	AAL
Surrogates		% Recovery	Recovery Limits		Flag				
DCMA		93	30-150					6/22/10 0:00	

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.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte **Certifications**

No certified Analyses included in this Report

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2010
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	02/23/2011

Sample Receipt Checklist

CLIENT NAME: TRC MA RECEIVED BY: KA DATE: 6/11/10

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 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

Temperature °C by Temp blank 3°C 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 samples "On Hold"? Yes No Stored where:

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19/17

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

Containers sent in to 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)	3	2 oz amber/clear jar	1
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	4	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

laboratory Comments: _____

mL vials: # HCl _____ # Methanol 2
 # Bisulfate _____ # DI Water 2
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:
05-11-10 17:09 OUT

all samples have the proper Acid pH: Yes No N/A _____

all samples have the proper Base pH: Yes No N/A _____

Project Name: Not Specified

Lab Number: L1008855

Project Number: Not Specified

Report Date: 06/28/10

MADEP MCP Response Action Analytical Report Certification

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

An affirmative response to questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

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

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1008855
Report Date: 06/28/10

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. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

MCP Chlorinated Herbicides

In reference to question H:

The WG418757-2/3 LCS/LCSD recoveries, associated with L1008855-01, are below the acceptance criteria for Dinoseb (0%/8%); however, the recoveries are due to a noted method interference caused by the hydrolysis step of the extraction procedure. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

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

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative

Date: 06/28/10

Project Name: Not Specified
 Project Number: Not Specified

Lab Number: L1008855
 Report Date: 06/28/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
 Analytical Date: 06/21/10 12:14
 Analyst: SH

Extraction Method: EPA 8151A
 Extraction Date: 06/18/10 14:20

Parameter	Result	Qualifier	Units	RL	MDL
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01 Batch: WG418757-1					
MCPP	ND		ug/kg	3200	--
MCPA	ND		ug/kg	3200	--
Dalapon	ND		ug/kg	32	--
Dicamba	ND		ug/kg	32	--
Dichloroprop	ND		ug/kg	32	--
2,4-D	ND		ug/kg	32	--
2,4-DB	ND		ug/kg	32	--
2,4,5-T	ND		ug/kg	32	--
2,4,5-TP (Silvex)	ND		ug/kg	32	--
Dinoseb	ND		ug/kg	32	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	111		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: Not Specified

Lab Number: L1008855

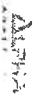
Project Number: Not Specified

Report Date: 06/28/10

MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01 Batch: WG418757-2 WG418757-3

Parameter	LCS		LCS		LCS		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual			
MCP	94		85		40-140		10		30
MCPA	65		62		40-140		5		30
Dalapon	74		61		40-140		19		30
Dicamba	106		100		40-140		6		30
Dichloroprop	89		82		40-140		8		30
2,4-D	108		110		40-140		2		30
2,4-DB	123		114		40-140		8		30
2,4,5-T	66		61		40-140		8		30
2,4,5-TP (Silvex)	92		83		40-140		10		30
Dinoseb	0	Q	8	Q	40-140		NIC		30

Surrogate	LCS		LCS		Acceptance Criteria	Column
	%Recovery	Qual	%Recovery	Qual		
DCAA	103		86		30-150	A
DCAA	123		101		30-150	B





MEDEIROS & SONS CONSTRUCTION, INC.

February 4, 2011

TRC Solutions Inc.
zrichards@trcsolutions.com

RE: City of New Bedford Jobs: Various Material's Source

Mr. Richards:

This letter is to inform you that the Screen Fill, Structural Fill and Sandy Fill from Medeiros & Sons' Construction, Inc. will be and is from the same sources as previous materials purchased and tested by the City of New Bedford.

Regarding the loam as we understand the previous samples have not passed, we do have another source we may be able to access, but the material would have to be tested. Please let us know if you would like us to provide a sample for testing.

If any other information is required please let me know.

Sincerely,

Dawn F Thibeault
Medeiros & Sons Construction, Inc.

Cc: Cheryl Henlin, Environmental Planner, City of New Bedford, MA

APPENDIX I

Dust Monitoring Data and Field Forms

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 23, 2011

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 21537
Test ID: 1
Test Abbreviation: UW
Start Date: 2/23/2011
Start Time: 6:36:49
Duration (dd:hh:mm:ss): 0:03:03:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 183
Notes:

Statistics

Channel: Aerosol
Units: mg/m³
Average: -0.001
Minimum: -0.002
Time of Minimum: 7:57:49
Date of Minimum: 2/23/2011
Maximum: 0.004
Time of Maximum: 6:54:49
Date of Maximum: 2/23/2011

Calibration

Sensor: Aerosol
Cal. date: 7/28/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m³
2/23/2011	6:37:49	0.001
2/23/2011	6:38:49	0.000
2/23/2011	6:39:49	0.000
2/23/2011	6:40:49	0.001
2/23/2011	6:41:49	0.001
2/23/2011	6:42:49	0.001
2/23/2011	6:43:49	0.000
2/23/2011	6:44:49	0.001
2/23/2011	6:45:49	0.001
2/23/2011	6:46:49	0.002
2/23/2011	6:47:49	0.001
2/23/2011	6:48:49	0.001
2/23/2011	6:49:49	0.001
2/23/2011	6:50:49	0.000
2/23/2011	6:51:49	0.001

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 23, 2011

2/23/2011	6:52:49	0.001
2/23/2011	6:53:49	0.001
2/23/2011	6:54:49	0.004
2/23/2011	6:55:49	0.000
2/23/2011	6:56:49	0.000
2/23/2011	6:57:49	0.000
2/23/2011	6:58:49	0.000
2/23/2011	6:59:49	0.000
2/23/2011	7:00:49	0.000
2/23/2011	7:01:49	0.001
2/23/2011	7:02:49	0.000
2/23/2011	7:03:49	0.000
2/23/2011	7:04:49	0.000
2/23/2011	7:05:49	0.001
2/23/2011	7:06:49	0.000
2/23/2011	7:07:49	0.000
2/23/2011	7:08:49	0.000
2/23/2011	7:09:49	0.000
2/23/2011	7:10:49	0.001
2/23/2011	7:11:49	0.000
2/23/2011	7:12:49	0.000
2/23/2011	7:13:49	0.000
2/23/2011	7:14:49	0.000
2/23/2011	7:15:49	0.000
2/23/2011	7:16:49	0.000
2/23/2011	7:17:49	0.000
2/23/2011	7:18:49	0.000
2/23/2011	7:19:49	0.000
2/23/2011	7:20:49	0.000
2/23/2011	7:21:49	0.000
2/23/2011	7:22:49	0.000
2/23/2011	7:23:49	0.000
2/23/2011	7:24:49	0.000
2/23/2011	7:25:49	0.000
2/23/2011	7:26:49	0.000
2/23/2011	7:27:49	0.000
2/23/2011	7:28:49	0.000
2/23/2011	7:29:49	0.000
2/23/2011	7:30:49	0.000
2/23/2011	7:31:49	0.000
2/23/2011	7:32:49	0.000
2/23/2011	7:33:49	0.000
2/23/2011	7:34:49	-0.001
2/23/2011	7:35:49	0.000
2/23/2011	7:36:49	0.000
2/23/2011	7:37:49	0.000

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 23, 2011

2/23/2011	7:38:49	-0.001
2/23/2011	7:39:49	-0.001
2/23/2011	7:40:49	-0.001
2/23/2011	7:41:49	-0.001
2/23/2011	7:42:49	-0.001
2/23/2011	7:43:49	-0.001
2/23/2011	7:44:49	-0.001
2/23/2011	7:45:49	0.000
2/23/2011	7:46:49	0.000
2/23/2011	7:47:49	0.000
2/23/2011	7:48:49	0.000
2/23/2011	7:49:49	-0.001
2/23/2011	7:50:49	-0.001
2/23/2011	7:51:49	0.000
2/23/2011	7:52:49	-0.001
2/23/2011	7:53:49	-0.001
2/23/2011	7:54:49	-0.001
2/23/2011	7:55:49	-0.001
2/23/2011	7:56:49	-0.001
2/23/2011	7:57:49	-0.002
2/23/2011	7:58:49	-0.002
2/23/2011	7:59:49	-0.001
2/23/2011	8:00:49	-0.001
2/23/2011	8:01:49	-0.002
2/23/2011	8:02:49	-0.001
2/23/2011	8:03:49	-0.001
2/23/2011	8:04:49	-0.002
2/23/2011	8:05:49	-0.001
2/23/2011	8:06:49	-0.001
2/23/2011	8:07:49	-0.001
2/23/2011	8:08:49	-0.002
2/23/2011	8:09:49	0.000
2/23/2011	8:10:49	-0.001
2/23/2011	8:11:49	-0.002
2/23/2011	8:12:49	-0.001
2/23/2011	8:13:49	0.000
2/23/2011	8:14:49	-0.001
2/23/2011	8:15:49	-0.001
2/23/2011	8:16:49	-0.001
2/23/2011	8:17:49	-0.001
2/23/2011	8:18:49	-0.001
2/23/2011	8:19:49	-0.002
2/23/2011	8:20:49	-0.002
2/23/2011	8:21:49	-0.002
2/23/2011	8:22:49	-0.002
2/23/2011	8:23:49	-0.001

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 23, 2011

2/23/2011	8:24:49	-0.001
2/23/2011	8:25:49	-0.001
2/23/2011	8:26:49	-0.001
2/23/2011	8:27:49	-0.001
2/23/2011	8:28:49	-0.001
2/23/2011	8:29:49	-0.001
2/23/2011	8:30:49	-0.002
2/23/2011	8:31:49	-0.002
2/23/2011	8:32:49	-0.002
2/23/2011	8:33:49	-0.001
2/23/2011	8:34:49	-0.001
2/23/2011	8:35:49	-0.001
2/23/2011	8:36:49	-0.001
2/23/2011	8:37:49	-0.001
2/23/2011	8:38:49	-0.002
2/23/2011	8:39:49	-0.001
2/23/2011	8:40:49	-0.002
2/23/2011	8:41:49	-0.001
2/23/2011	8:42:49	-0.001
2/23/2011	8:43:49	-0.001
2/23/2011	8:44:49	-0.002
2/23/2011	8:45:49	-0.001
2/23/2011	8:46:49	-0.001
2/23/2011	8:47:49	-0.001
2/23/2011	8:48:49	-0.001
2/23/2011	8:49:49	0.000
2/23/2011	8:50:49	0.003
2/23/2011	8:51:49	-0.001
2/23/2011	8:52:49	-0.001
2/23/2011	8:53:49	-0.001
2/23/2011	8:54:49	-0.001
2/23/2011	8:55:49	0.000
2/23/2011	8:56:49	0.000
2/23/2011	8:57:49	-0.001
2/23/2011	8:58:49	-0.001
2/23/2011	8:59:49	-0.001
2/23/2011	9:00:49	-0.001
2/23/2011	9:01:49	-0.001
2/23/2011	9:02:49	-0.001
2/23/2011	9:03:49	-0.001
2/23/2011	9:04:49	-0.001
2/23/2011	9:05:49	-0.001
2/23/2011	9:06:49	-0.001
2/23/2011	9:07:49	-0.001
2/23/2011	9:08:49	0.000
2/23/2011	9:09:49	-0.001

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 23, 2011

2/23/2011	9:10:49	-0.001
2/23/2011	9:11:49	-0.001
2/23/2011	9:12:49	-0.001
2/23/2011	9:13:49	-0.001
2/23/2011	9:14:49	-0.001
2/23/2011	9:15:49	-0.001
2/23/2011	9:16:49	-0.001
2/23/2011	9:17:49	-0.001
2/23/2011	9:18:49	-0.001
2/23/2011	9:19:49	-0.001
2/23/2011	9:20:49	-0.001
2/23/2011	9:21:49	-0.001
2/23/2011	9:22:49	-0.001
2/23/2011	9:23:49	-0.001
2/23/2011	9:24:49	-0.001
2/23/2011	9:25:49	-0.001
2/23/2011	9:26:49	-0.001
2/23/2011	9:27:49	-0.001
2/23/2011	9:28:49	-0.001
2/23/2011	9:29:49	-0.001
2/23/2011	9:30:49	0.000
2/23/2011	9:31:49	-0.001
2/23/2011	9:32:49	-0.001
2/23/2011	9:33:49	-0.001
2/23/2011	9:34:49	-0.001
2/23/2011	9:35:49	-0.001
2/23/2011	9:36:49	-0.001
2/23/2011	9:37:49	-0.002
2/23/2011	9:38:49	-0.002
2/23/2011	9:39:49	-0.002

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Work Zone Monitor (Summary Only)
February 23, 2011

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 23441
Test ID: 1
Test Abbreviation: OS
Start Date: 2/23/2011
Start Time: 6:29:26
Duration (dd:hh:mm:ss): 0:03:13:46
Time constant (seconds): 10
Log Interval (mm:ss): 0:01
Number of points: 11626
Notes:

Statistics

Channel: Aerosol
Units: mg/m³
Average: 0.028
Minimum: 0.004
Time of Minimum: 9:38:13
Date of Minimum: 2/23/2011
Maximum: 5.847
Time of Maximum: 7:24:34
Date of Maximum: 2/23/2011

Calibration

Sensor: Aerosol
Cal. date: 3/19/2010

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 23, 2011

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 85200998
Test ID: 1
Test Abbreviation: DW
Start Date: 2/23/2011
Start Time: 6:30:54
Duration (dd:hh:mm:ss): 0:03:13:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 193
Notes:

Statistics

Channel: Aerosol
Units: mg/m³
Average: -0.001
Minimum: -0.003
Time of Minimum: 7:48:54
Date of Minimum: 2/23/2011
Maximum: 0.021
Time of Maximum: 7:26:54
Date of Maximum: 2/23/2011

Calibration

Sensor: Aerosol
Cal. date: 8/20/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
2/23/2011	6:31:54	0.000
2/23/2011	6:32:54	0.001
2/23/2011	6:33:54	0.001
2/23/2011	6:34:54	0.001
2/23/2011	6:35:54	0.002
2/23/2011	6:36:54	0.001
2/23/2011	6:37:54	0.001
2/23/2011	6:38:54	0.000
2/23/2011	6:39:54	0.001
2/23/2011	6:40:54	0.001
2/23/2011	6:41:54	0.001
2/23/2011	6:42:54	0.000
2/23/2011	6:43:54	0.000
2/23/2011	6:44:54	0.000
2/23/2011	6:45:54	0.000

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 23, 2011

2/23/2011	6:46:54	0.001
2/23/2011	6:47:54	0.000
2/23/2011	6:48:54	0.001
2/23/2011	6:49:54	0.000
2/23/2011	6:50:54	0.000
2/23/2011	6:51:54	0.001
2/23/2011	6:52:54	0.000
2/23/2011	6:53:54	0.001
2/23/2011	6:54:54	0.001
2/23/2011	6:55:54	0.002
2/23/2011	6:56:54	0.000
2/23/2011	6:57:54	0.000
2/23/2011	6:58:54	0.000
2/23/2011	6:59:54	0.001
2/23/2011	7:00:54	0.000
2/23/2011	7:01:54	0.000
2/23/2011	7:02:54	0.000
2/23/2011	7:03:54	0.005
2/23/2011	7:04:54	0.000
2/23/2011	7:05:54	0.001
2/23/2011	7:06:54	0.004
2/23/2011	7:07:54	0.000
2/23/2011	7:08:54	0.000
2/23/2011	7:09:54	0.000
2/23/2011	7:10:54	0.001
2/23/2011	7:11:54	0.002
2/23/2011	7:12:54	0.000
2/23/2011	7:13:54	0.000
2/23/2011	7:14:54	0.000
2/23/2011	7:15:54	0.000
2/23/2011	7:16:54	0.000
2/23/2011	7:17:54	-0.001
2/23/2011	7:18:54	-0.001
2/23/2011	7:19:54	-0.001
2/23/2011	7:20:54	-0.001
2/23/2011	7:21:54	0.000
2/23/2011	7:22:54	0.000
2/23/2011	7:23:54	0.011
2/23/2011	7:24:54	0.002
2/23/2011	7:25:54	0.002
2/23/2011	7:26:54	0.021
2/23/2011	7:27:54	-0.001
2/23/2011	7:28:54	0.006
2/23/2011	7:29:54	0.004
2/23/2011	7:30:54	0.000
2/23/2011	7:31:54	0.018

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 23, 2011

2/23/2011	7:32:54	0.010
2/23/2011	7:33:54	-0.001
2/23/2011	7:34:54	0.000
2/23/2011	7:35:54	-0.001
2/23/2011	7:36:54	-0.002
2/23/2011	7:37:54	0.006
2/23/2011	7:38:54	-0.002
2/23/2011	7:39:54	0.000
2/23/2011	7:40:54	-0.002
2/23/2011	7:41:54	0.001
2/23/2011	7:42:54	0.000
2/23/2011	7:43:54	0.002
2/23/2011	7:44:54	0.000
2/23/2011	7:45:54	0.004
2/23/2011	7:46:54	-0.002
2/23/2011	7:47:54	-0.002
2/23/2011	7:48:54	-0.003
2/23/2011	7:49:54	0.000
2/23/2011	7:50:54	-0.002
2/23/2011	7:51:54	-0.002
2/23/2011	7:52:54	-0.002
2/23/2011	7:53:54	-0.002
2/23/2011	7:54:54	0.000
2/23/2011	7:55:54	-0.002
2/23/2011	7:56:54	0.001
2/23/2011	7:57:54	-0.001
2/23/2011	7:58:54	-0.002
2/23/2011	7:59:54	-0.001
2/23/2011	8:00:54	-0.002
2/23/2011	8:01:54	-0.002
2/23/2011	8:02:54	-0.002
2/23/2011	8:03:54	-0.002
2/23/2011	8:04:54	-0.002
2/23/2011	8:05:54	-0.002
2/23/2011	8:06:54	-0.002
2/23/2011	8:07:54	-0.002
2/23/2011	8:08:54	-0.001
2/23/2011	8:09:54	-0.001
2/23/2011	8:10:54	-0.002
2/23/2011	8:11:54	-0.003
2/23/2011	8:12:54	-0.002
2/23/2011	8:13:54	-0.002
2/23/2011	8:14:54	-0.002
2/23/2011	8:15:54	-0.002
2/23/2011	8:16:54	-0.002
2/23/2011	8:17:54	-0.002

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 23, 2011

2/23/2011	8:18:54	-0.003
2/23/2011	8:19:54	-0.003
2/23/2011	8:20:54	-0.002
2/23/2011	8:21:54	-0.002
2/23/2011	8:22:54	-0.003
2/23/2011	8:23:54	-0.003
2/23/2011	8:24:54	-0.002
2/23/2011	8:25:54	-0.002
2/23/2011	8:26:54	-0.002
2/23/2011	8:27:54	-0.002
2/23/2011	8:28:54	-0.002
2/23/2011	8:29:54	-0.002
2/23/2011	8:30:54	-0.002
2/23/2011	8:31:54	-0.002
2/23/2011	8:32:54	-0.001
2/23/2011	8:33:54	0.010
2/23/2011	8:34:54	0.002
2/23/2011	8:35:54	0.000
2/23/2011	8:36:54	-0.003
2/23/2011	8:37:54	-0.003
2/23/2011	8:38:54	-0.003
2/23/2011	8:39:54	-0.002
2/23/2011	8:40:54	-0.003
2/23/2011	8:41:54	-0.003
2/23/2011	8:42:54	-0.002
2/23/2011	8:43:54	-0.002
2/23/2011	8:44:54	-0.002
2/23/2011	8:45:54	-0.002
2/23/2011	8:46:54	-0.002
2/23/2011	8:47:54	-0.001
2/23/2011	8:48:54	-0.002
2/23/2011	8:49:54	-0.001
2/23/2011	8:50:54	-0.002
2/23/2011	8:51:54	-0.002
2/23/2011	8:52:54	-0.002
2/23/2011	8:53:54	-0.002
2/23/2011	8:54:54	-0.001
2/23/2011	8:55:54	-0.002
2/23/2011	8:56:54	-0.001
2/23/2011	8:57:54	-0.002
2/23/2011	8:58:54	-0.002
2/23/2011	8:59:54	-0.001
2/23/2011	9:00:54	-0.002
2/23/2011	9:01:54	-0.002
2/23/2011	9:02:54	-0.002
2/23/2011	9:03:54	-0.002

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 23, 2011

2/23/2011	9:04:54	-0.002
2/23/2011	9:05:54	-0.002
2/23/2011	9:06:54	-0.002
2/23/2011	9:07:54	-0.002
2/23/2011	9:08:54	-0.002
2/23/2011	9:09:54	-0.002
2/23/2011	9:10:54	-0.002
2/23/2011	9:11:54	-0.002
2/23/2011	9:12:54	-0.002
2/23/2011	9:13:54	-0.002
2/23/2011	9:14:54	-0.002
2/23/2011	9:15:54	-0.002
2/23/2011	9:16:54	-0.002
2/23/2011	9:17:54	-0.002
2/23/2011	9:18:54	-0.002
2/23/2011	9:19:54	-0.002
2/23/2011	9:20:54	-0.002
2/23/2011	9:21:54	-0.002
2/23/2011	9:22:54	0.000
2/23/2011	9:23:54	-0.002
2/23/2011	9:24:54	-0.002
2/23/2011	9:25:54	-0.002
2/23/2011	9:26:54	0.000
2/23/2011	9:27:54	-0.001
2/23/2011	9:28:54	-0.002
2/23/2011	9:29:54	-0.002
2/23/2011	9:30:54	-0.002
2/23/2011	9:31:54	-0.003
2/23/2011	9:32:54	-0.002
2/23/2011	9:33:54	-0.002
2/23/2011	9:34:54	-0.002
2/23/2011	9:35:54	-0.002
2/23/2011	9:36:54	-0.002
2/23/2011	9:37:54	-0.002
2/23/2011	9:38:54	-0.003
2/23/2011	9:39:54	-0.002
2/23/2011	9:40:54	-0.002
2/23/2011	9:41:54	-0.003
2/23/2011	9:42:54	-0.003
2/23/2011	9:43:54	-0.003

HF-31 NBHS Excavation Monitoring Summary

Date: 2-23-11
 Weather: Clear 200 WNW wind
 Activity: HF-31 Hot Spot Removal

Location	Unit ID	Time	Average	Minimum	Maximum	Comments
UPWIND	3286	start 0637				
ON SITE	4870	start 0629				
DOWN WIND	7098	start 0630				
UPWIND	3286	0723	0.000	-0.001	0.010	
ON SITE	4870	0725	0.032	0.019	0.188	Accidental Displacement
DOWN WIND	7098	0726	0.001	-0.002	0.056	Panel out - Alcoa Temporary
UPWIND	3286	0741	0.000	-0.002	0.010	
ON SITE	04870	0744	0.041	0.012	1.04	
DOWN WIND	7098	0747	0.001	-0.003	0.100	
UPWIND	3286	0845	0.000	-0.003	0.010	
ON SITE	4870	0846	0.033	0.010	1.04	
DOWN WIND	7098	0848	0.000	-0.004	0.100	
UPWIND		STOP				
ON SITE		STOP				
DOWN WIND		STOP				

NOTES

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 24, 2011

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 21537
Test ID: 1
Test Abbreviation: UW/DW at 10am
Start Date: 2/24/2011
Start Time: 6:35:50
Duration (dd:hh:mm:ss): 0:08:06:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 486
Notes: upwind became downwind at 1000

Statistics

Channel: Aerosol
Units: mg/m³
Average: -0.003
Minimum: -0.008
Time of Minimum: 9:28:50
Date of Minimum: 2/24/2011
Maximum: 0.067
Time of Maximum: 12:42:50
Date of Maximum: 2/24/2011

Calibration

Sensor: Aerosol
Cal. date 7/28/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
2/24/2011	6:36:50	0.000
2/24/2011	6:37:50	-0.002
2/24/2011	6:38:50	-0.001
2/24/2011	6:39:50	0.000
2/24/2011	6:40:50	0.000
2/24/2011	6:41:50	0.000
2/24/2011	6:42:50	0.000
2/24/2011	6:43:50	0.000
2/24/2011	6:44:50	-0.001
2/24/2011	6:45:50	-0.001
2/24/2011	6:46:50	-0.001
2/24/2011	6:47:50	-0.001
2/24/2011	6:48:50	-0.001
2/24/2011	6:49:50	-0.001
2/24/2011	6:50:50	-0.001
2/24/2011	6:51:50	-0.001

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 24, 2011

2/24/2011	6:52:50	-0.001
2/24/2011	6:53:50	-0.001
2/24/2011	6:54:50	0.000
2/24/2011	6:55:50	-0.001
2/24/2011	6:56:50	-0.001
2/24/2011	6:57:50	-0.001
2/24/2011	6:58:50	0.000
2/24/2011	6:59:50	-0.001
2/24/2011	7:00:50	0.000
2/24/2011	7:01:50	0.000
2/24/2011	7:02:50	0.000
2/24/2011	7:03:50	0.000
2/24/2011	7:04:50	0.000
2/24/2011	7:05:50	0.000
2/24/2011	7:06:50	0.000
2/24/2011	7:07:50	0.000
2/24/2011	7:08:50	0.000
2/24/2011	7:09:50	0.000
2/24/2011	7:10:50	0.000
2/24/2011	7:11:50	0.000
2/24/2011	7:12:50	0.000
2/24/2011	7:13:50	0.000
2/24/2011	7:14:50	0.000
2/24/2011	7:15:50	0.000
2/24/2011	7:16:50	0.000
2/24/2011	7:17:50	0.000
2/24/2011	7:18:50	0.000
2/24/2011	7:19:50	0.000
2/24/2011	7:20:50	0.000
2/24/2011	7:21:50	0.000
2/24/2011	7:22:50	0.000
2/24/2011	7:23:50	0.000
2/24/2011	7:24:50	0.000
2/24/2011	7:25:50	0.000
2/24/2011	7:26:50	-0.001
2/24/2011	7:27:50	0.000
2/24/2011	7:28:50	0.000
2/24/2011	7:29:50	-0.001
2/24/2011	7:30:50	0.000
2/24/2011	7:31:50	0.000
2/24/2011	7:32:50	-0.001
2/24/2011	7:33:50	0.000
2/24/2011	7:34:50	0.001
2/24/2011	7:35:50	0.000
2/24/2011	7:36:50	0.000
2/24/2011	7:37:50	0.001
2/24/2011	7:38:50	0.001

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 24, 2011

2/24/2011	7:39:50	0.000
2/24/2011	7:40:50	0.000
2/24/2011	7:41:50	0.000
2/24/2011	7:42:50	-0.001
2/24/2011	7:43:50	-0.001
2/24/2011	7:44:50	-0.002
2/24/2011	7:45:50	-0.002
2/24/2011	7:46:50	-0.002
2/24/2011	7:47:50	-0.003
2/24/2011	7:48:50	-0.003
2/24/2011	7:49:50	-0.003
2/24/2011	7:50:50	-0.002
2/24/2011	7:51:50	-0.002
2/24/2011	7:52:50	-0.002
2/24/2011	7:53:50	-0.002
2/24/2011	7:54:50	-0.002
2/24/2011	7:55:50	-0.002
2/24/2011	7:56:50	-0.002
2/24/2011	7:57:50	-0.002
2/24/2011	7:58:50	-0.002
2/24/2011	7:59:50	-0.002
2/24/2011	8:00:50	-0.002
2/24/2011	8:01:50	-0.002
2/24/2011	8:02:50	-0.002
2/24/2011	8:03:50	-0.002
2/24/2011	8:04:50	-0.003
2/24/2011	8:05:50	-0.003
2/24/2011	8:06:50	-0.002
2/24/2011	8:07:50	-0.002
2/24/2011	8:08:50	-0.003
2/24/2011	8:09:50	-0.002
2/24/2011	8:10:50	-0.002
2/24/2011	8:11:50	-0.002
2/24/2011	8:12:50	-0.002
2/24/2011	8:13:50	-0.003
2/24/2011	8:14:50	-0.003
2/24/2011	8:15:50	-0.002
2/24/2011	8:16:50	-0.002
2/24/2011	8:17:50	-0.002
2/24/2011	8:18:50	-0.002
2/24/2011	8:19:50	-0.002
2/24/2011	8:20:50	-0.001
2/24/2011	8:21:50	-0.002
2/24/2011	8:22:50	-0.002
2/24/2011	8:23:50	-0.001
2/24/2011	8:24:50	-0.002
2/24/2011	8:25:50	-0.002

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 24, 2011

2/24/2011	8:26:50	-0.002
2/24/2011	8:27:50	-0.002
2/24/2011	8:28:50	-0.002
2/24/2011	8:29:50	-0.003
2/24/2011	8:30:50	-0.004
2/24/2011	8:31:50	-0.004
2/24/2011	8:32:50	-0.003
2/24/2011	8:33:50	-0.004
2/24/2011	8:34:50	-0.004
2/24/2011	8:35:50	-0.003
2/24/2011	8:36:50	-0.003
2/24/2011	8:37:50	-0.004
2/24/2011	8:38:50	-0.004
2/24/2011	8:39:50	-0.004
2/24/2011	8:40:50	-0.004
2/24/2011	8:41:50	-0.004
2/24/2011	8:42:50	-0.004
2/24/2011	8:43:50	0.002
2/24/2011	8:44:50	-0.001
2/24/2011	8:45:50	0.000
2/24/2011	8:46:50	-0.003
2/24/2011	8:47:50	-0.003
2/24/2011	8:48:50	-0.003
2/24/2011	8:49:50	-0.002
2/24/2011	8:50:50	-0.002
2/24/2011	8:51:50	-0.002
2/24/2011	8:52:50	-0.002
2/24/2011	8:53:50	0.007
2/24/2011	8:54:50	0.000
2/24/2011	8:55:50	0.001
2/24/2011	8:56:50	-0.001
2/24/2011	8:57:50	0.000
2/24/2011	8:58:50	0.000
2/24/2011	8:59:50	-0.001
2/24/2011	9:00:50	0.000
2/24/2011	9:01:50	0.000
2/24/2011	9:02:50	0.000
2/24/2011	9:03:50	-0.001
2/24/2011	9:04:50	0.002
2/24/2011	9:05:50	0.000
2/24/2011	9:06:50	-0.004
2/24/2011	9:07:50	-0.004
2/24/2011	9:08:50	-0.003
2/24/2011	9:09:50	-0.003
2/24/2011	9:10:50	0.000
2/24/2011	9:11:50	-0.002
2/24/2011	9:12:50	-0.004

Dust Monitoring Data
City of New Bedford
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2/24/2011	9:13:50	-0.005
2/24/2011	9:14:50	-0.005
2/24/2011	9:15:50	-0.006
2/24/2011	9:16:50	-0.007
2/24/2011	9:17:50	-0.006
2/24/2011	9:18:50	-0.006
2/24/2011	9:19:50	-0.001
2/24/2011	9:20:50	-0.004
2/24/2011	9:21:50	-0.003
2/24/2011	9:22:50	-0.005
2/24/2011	9:23:50	-0.006
2/24/2011	9:24:50	-0.004
2/24/2011	9:25:50	-0.005
2/24/2011	9:26:50	-0.005
2/24/2011	9:27:50	-0.005
2/24/2011	9:28:50	-0.008
2/24/2011	9:29:50	-0.006
2/24/2011	9:30:50	-0.005
2/24/2011	9:31:50	-0.008
2/24/2011	9:32:50	-0.005
2/24/2011	9:33:50	-0.003
2/24/2011	9:34:50	-0.001
2/24/2011	9:35:50	-0.007
2/24/2011	9:36:50	-0.005
2/24/2011	9:37:50	-0.007
2/24/2011	9:38:50	-0.007
2/24/2011	9:39:50	-0.005
2/24/2011	9:40:50	-0.004
2/24/2011	9:41:50	-0.008
2/24/2011	9:42:50	-0.008
2/24/2011	9:43:50	-0.007
2/24/2011	9:44:50	-0.005
2/24/2011	9:45:50	-0.003
2/24/2011	9:46:50	-0.002
2/24/2011	9:47:50	-0.007
2/24/2011	9:48:50	-0.007
2/24/2011	9:49:50	-0.006
2/24/2011	9:50:50	-0.006
2/24/2011	9:51:50	-0.002
2/24/2011	9:52:50	-0.004
2/24/2011	9:53:50	-0.001
2/24/2011	9:54:50	-0.001
2/24/2011	9:55:50	0.000
2/24/2011	9:56:50	0.003
2/24/2011	9:57:50	-0.006
2/24/2011	9:58:50	-0.002
2/24/2011	9:59:50	-0.001

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 24, 2011

2/24/2011	10:00:50	0.002
2/24/2011	10:01:50	0.007
2/24/2011	10:02:50	0.004
2/24/2011	10:03:50	0.000
2/24/2011	10:04:50	-0.004
2/24/2011	10:05:50	-0.002
2/24/2011	10:06:50	0.002
2/24/2011	10:07:50	0.005
2/24/2011	10:08:50	0.002
2/24/2011	10:09:50	-0.004
2/24/2011	10:10:50	-0.001
2/24/2011	10:11:50	-0.006
2/24/2011	10:12:50	0.000
2/24/2011	10:13:50	-0.002
2/24/2011	10:14:50	0.007
2/24/2011	10:15:50	-0.001
2/24/2011	10:16:50	0.000
2/24/2011	10:17:50	0.000
2/24/2011	10:18:50	-0.001
2/24/2011	10:19:50	-0.003
2/24/2011	10:20:50	-0.001
2/24/2011	10:21:50	-0.003
2/24/2011	10:22:50	0.004
2/24/2011	10:23:50	0.000
2/24/2011	10:24:50	-0.005
2/24/2011	10:25:50	-0.003
2/24/2011	10:26:50	-0.005
2/24/2011	10:27:50	-0.002
2/24/2011	10:28:50	0.005
2/24/2011	10:29:50	0.001
2/24/2011	10:30:50	0.001
2/24/2011	10:31:50	0.002
2/24/2011	10:32:50	0.003
2/24/2011	10:33:50	0.000
2/24/2011	10:34:50	-0.005
2/24/2011	10:35:50	-0.003
2/24/2011	10:36:50	-0.002
2/24/2011	10:37:50	-0.005
2/24/2011	10:38:50	-0.005
2/24/2011	10:39:50	-0.001
2/24/2011	10:40:50	-0.002
2/24/2011	10:41:50	0.005
2/24/2011	10:42:50	0.000
2/24/2011	10:43:50	-0.003
2/24/2011	10:44:50	-0.002
2/24/2011	10:45:50	-0.001
2/24/2011	10:46:50	-0.002

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Upwind Monitor
February 24, 2011

2/24/2011	10:47:50	0.010
2/24/2011	10:48:50	0.008
2/24/2011	10:49:50	0.004
2/24/2011	10:50:50	0.004
2/24/2011	10:51:50	0.001
2/24/2011	10:52:50	0.005
2/24/2011	10:53:50	0.000
2/24/2011	10:54:50	-0.002
2/24/2011	10:55:50	0.003
2/24/2011	10:56:50	-0.001
2/24/2011	10:57:50	-0.002
2/24/2011	10:58:50	0.000
2/24/2011	10:59:50	-0.002
2/24/2011	11:00:50	0.001
2/24/2011	11:01:50	0.003
2/24/2011	11:02:50	0.000
2/24/2011	11:03:50	-0.002
2/24/2011	11:04:50	0.000
2/24/2011	11:05:50	-0.002
2/24/2011	11:06:50	-0.003
2/24/2011	11:07:50	-0.002
2/24/2011	11:08:50	-0.004
2/24/2011	11:09:50	-0.001
2/24/2011	11:10:50	0.008
2/24/2011	11:11:50	-0.003
2/24/2011	11:12:50	-0.002
2/24/2011	11:13:50	0.000
2/24/2011	11:14:50	-0.006
2/24/2011	11:15:50	-0.001
2/24/2011	11:16:50	-0.005
2/24/2011	11:17:50	-0.003
2/24/2011	11:18:50	0.002
2/24/2011	11:19:50	-0.002
2/24/2011	11:20:50	-0.005
2/24/2011	11:21:50	-0.003
2/24/2011	11:22:50	-0.004
2/24/2011	11:23:50	-0.006
2/24/2011	11:24:50	-0.008
2/24/2011	11:25:50	-0.008
2/24/2011	11:26:50	-0.007
2/24/2011	11:27:50	-0.007
2/24/2011	11:28:50	-0.007
2/24/2011	11:29:50	-0.008
2/24/2011	11:30:50	-0.007
2/24/2011	11:31:50	-0.008
2/24/2011	11:32:50	-0.008
2/24/2011	11:33:50	0.024

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2/24/2011	11:34:50	-0.007
2/24/2011	11:35:50	-0.007
2/24/2011	11:36:50	-0.007
2/24/2011	11:37:50	-0.007
2/24/2011	11:38:50	-0.008
2/24/2011	11:39:50	-0.008
2/24/2011	11:40:50	-0.007
2/24/2011	11:41:50	-0.008
2/24/2011	11:42:50	-0.008
2/24/2011	11:43:50	-0.008
2/24/2011	11:44:50	-0.008
2/24/2011	11:45:50	-0.007
2/24/2011	11:46:50	-0.007
2/24/2011	11:47:50	-0.007
2/24/2011	11:48:50	-0.008
2/24/2011	11:49:50	-0.004
2/24/2011	11:50:50	-0.003
2/24/2011	11:51:50	-0.008
2/24/2011	11:52:50	-0.005
2/24/2011	11:53:50	-0.008
2/24/2011	11:54:50	-0.008
2/24/2011	11:55:50	-0.007
2/24/2011	11:56:50	-0.007
2/24/2011	11:57:50	-0.008
2/24/2011	11:58:50	-0.008
2/24/2011	11:59:50	-0.008
2/24/2011	12:00:50	-0.008
2/24/2011	12:01:50	-0.007
2/24/2011	12:02:50	-0.007
2/24/2011	12:03:50	-0.007
2/24/2011	12:04:50	-0.007
2/24/2011	12:05:50	-0.006
2/24/2011	12:06:50	-0.006
2/24/2011	12:07:50	-0.002
2/24/2011	12:08:50	-0.003
2/24/2011	12:09:50	-0.005
2/24/2011	12:10:50	-0.004
2/24/2011	12:11:50	-0.002
2/24/2011	12:12:50	0.000
2/24/2011	12:13:50	-0.002
2/24/2011	12:14:50	-0.004
2/24/2011	12:15:50	-0.002
2/24/2011	12:16:50	-0.003
2/24/2011	12:17:50	-0.002
2/24/2011	12:18:50	-0.004
2/24/2011	12:19:50	0.000
2/24/2011	12:20:50	-0.002

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2/24/2011	12:21:50	-0.004
2/24/2011	12:22:50	-0.002
2/24/2011	12:23:50	-0.004
2/24/2011	12:24:50	-0.006
2/24/2011	12:25:50	-0.006
2/24/2011	12:26:50	-0.006
2/24/2011	12:27:50	-0.007
2/24/2011	12:28:50	-0.007
2/24/2011	12:29:50	-0.007
2/24/2011	12:30:50	-0.004
2/24/2011	12:31:50	0.000
2/24/2011	12:32:50	-0.006
2/24/2011	12:33:50	-0.004
2/24/2011	12:34:50	-0.004
2/24/2011	12:35:50	-0.006
2/24/2011	12:36:50	-0.007
2/24/2011	12:37:50	-0.006
2/24/2011	12:38:50	-0.005
2/24/2011	12:39:50	-0.003
2/24/2011	12:40:50	-0.008
2/24/2011	12:41:50	-0.007
2/24/2011	12:42:50	0.067
2/24/2011	12:43:50	-0.002
2/24/2011	12:44:50	-0.006
2/24/2011	12:45:50	-0.007
2/24/2011	12:46:50	-0.006
2/24/2011	12:47:50	0.003
2/24/2011	12:48:50	-0.006
2/24/2011	12:49:50	-0.005
2/24/2011	12:50:50	-0.005
2/24/2011	12:51:50	-0.006
2/24/2011	12:52:50	-0.007
2/24/2011	12:53:50	-0.007
2/24/2011	12:54:50	-0.008
2/24/2011	12:55:50	-0.007
2/24/2011	12:56:50	-0.007
2/24/2011	12:57:50	-0.006
2/24/2011	12:58:50	-0.008
2/24/2011	12:59:50	-0.008
2/24/2011	13:00:50	-0.008
2/24/2011	13:01:50	-0.008
2/24/2011	13:02:50	-0.008
2/24/2011	13:03:50	-0.008
2/24/2011	13:04:50	-0.008
2/24/2011	13:05:50	-0.007
2/24/2011	13:06:50	-0.008
2/24/2011	13:07:50	-0.007

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2/24/2011	13:08:50	-0.007
2/24/2011	13:09:50	-0.007
2/24/2011	13:10:50	-0.007
2/24/2011	13:11:50	-0.008
2/24/2011	13:12:50	-0.008
2/24/2011	13:13:50	-0.008
2/24/2011	13:14:50	-0.007
2/24/2011	13:15:50	-0.006
2/24/2011	13:16:50	-0.008
2/24/2011	13:17:50	-0.007
2/24/2011	13:18:50	-0.008
2/24/2011	13:19:50	-0.008
2/24/2011	13:20:50	-0.008
2/24/2011	13:21:50	-0.008
2/24/2011	13:22:50	-0.008
2/24/2011	13:23:50	-0.008
2/24/2011	13:24:50	-0.001
2/24/2011	13:25:50	-0.007
2/24/2011	13:26:50	-0.008
2/24/2011	13:27:50	-0.008
2/24/2011	13:28:50	-0.004
2/24/2011	13:29:50	-0.004
2/24/2011	13:30:50	-0.007
2/24/2011	13:31:50	-0.006
2/24/2011	13:32:50	-0.007
2/24/2011	13:33:50	-0.008
2/24/2011	13:34:50	-0.008
2/24/2011	13:35:50	-0.008
2/24/2011	13:36:50	-0.007
2/24/2011	13:37:50	-0.007
2/24/2011	13:38:50	-0.006
2/24/2011	13:39:50	-0.007
2/24/2011	13:40:50	-0.006
2/24/2011	13:41:50	0.000
2/24/2011	13:42:50	-0.002
2/24/2011	13:43:50	-0.004
2/24/2011	13:44:50	-0.004
2/24/2011	13:45:50	-0.007
2/24/2011	13:46:50	-0.007
2/24/2011	13:47:50	-0.007
2/24/2011	13:48:50	-0.007
2/24/2011	13:49:50	-0.008
2/24/2011	13:50:50	-0.007
2/24/2011	13:51:50	-0.007
2/24/2011	13:52:50	-0.008
2/24/2011	13:53:50	-0.008
2/24/2011	13:54:50	-0.008

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2/24/2011	13:55:50	-0.007
2/24/2011	13:56:50	-0.008
2/24/2011	13:57:50	-0.008
2/24/2011	13:58:50	-0.008
2/24/2011	13:59:50	-0.005
2/24/2011	14:00:50	0.001
2/24/2011	14:01:50	-0.006
2/24/2011	14:02:50	-0.003
2/24/2011	14:03:50	-0.007
2/24/2011	14:04:50	-0.006
2/24/2011	14:05:50	-0.007
2/24/2011	14:06:50	0.019
2/24/2011	14:07:50	0.012
2/24/2011	14:08:50	-0.001
2/24/2011	14:09:50	0.004
2/24/2011	14:10:50	-0.008
2/24/2011	14:11:50	-0.006
2/24/2011	14:12:50	-0.008
2/24/2011	14:13:50	-0.007
2/24/2011	14:14:50	-0.005
2/24/2011	14:15:50	-0.005
2/24/2011	14:16:50	-0.006
2/24/2011	14:17:50	-0.006
2/24/2011	14:18:50	0.002
2/24/2011	14:19:50	0.014
2/24/2011	14:20:50	0.003
2/24/2011	14:21:50	0.005
2/24/2011	14:22:50	0.000
2/24/2011	14:23:50	-0.005
2/24/2011	14:24:50	0.012
2/24/2011	14:25:50	0.001
2/24/2011	14:26:50	0.001
2/24/2011	14:27:50	0.003
2/24/2011	14:28:50	-0.002
2/24/2011	14:29:50	0.000
2/24/2011	14:30:50	-0.002
2/24/2011	14:31:50	-0.004
2/24/2011	14:32:50	-0.006
2/24/2011	14:33:50	-0.001
2/24/2011	14:34:50	-0.001
2/24/2011	14:35:50	0.002
2/24/2011	14:36:50	0.008
2/24/2011	14:37:50	-0.003
2/24/2011	14:38:50	-0.007
2/24/2011	14:39:50	-0.006
2/24/2011	14:40:50	-0.001
2/24/2011	14:41:50	-0.003

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 23441
Test ID: 1
Test Abbreviation: OS
Start Date: 2/24/2011
Start Time: 6:39:46
Duration (dd:hh:mm:ss): 0:00:28:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 28
Notes:

Statistics

Channel: Aerosol
Units: mg/m³
Average: -0.03
Minimum: -0.041
Time of Minimum: 6:52:46
Date of Minimum: 2/24/2011
Maximum: -0.003
Time of Maximum: 6:49:46
Date of Maximum: 2/24/2011

Calibration

Sensor: Aerosol
Cal. date: 3/19/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
2/24/2011	6:40:46	-0.02
2/24/2011	6:41:46	-0.038
2/24/2011	6:42:46	-0.04
2/24/2011	6:43:46	-0.037
2/24/2011	6:44:46	-0.027
2/24/2011	6:45:46	-0.022
2/24/2011	6:46:46	-0.021
2/24/2011	6:47:46	-0.015
2/24/2011	6:48:46	-0.034
2/24/2011	6:49:46	-0.003
2/24/2011	6:50:46	-0.04
2/24/2011	6:51:46	-0.029
2/24/2011	6:52:46	-0.041
2/24/2011	6:53:46	-0.039
2/24/2011	6:54:46	-0.041
2/24/2011	6:55:46	-0.023

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2/24/2011	6:56:46	-0.028
2/24/2011	6:57:46	-0.024
2/24/2011	6:58:46	-0.038
2/24/2011	6:59:46	-0.039
2/24/2011	7:00:46	-0.031
2/24/2011	7:01:46	-0.034
2/24/2011	7:02:46	-0.032
2/24/2011	7:03:46	-0.031
2/24/2011	7:04:46	-0.026
2/24/2011	7:05:46	-0.03
2/24/2011	7:06:46	-0.018
2/24/2011	7:07:46	-0.032

Model: Dust Trak
Model Number: 8520
Serial Number: 23441
Test ID: 2
Test Abbreviation: OS
Start Date: 2/24/2011
Start Time: 7:10:28
Duration (dd:hh:mm:ss): 0:00:01:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 1
Notes: one data point

Statistics

Channel: Aerosol
Units: mg/m³
Average: 0.008
Minimum: 0.008
Time of Minimum: 7:11:28
Date of Minimum: 2/24/2011
Maximum: 0.008
Time of Maximum: 7:11:28
Date of Maximum: 2/24/2011

Calibration

Sensor: Aerosol
Cal. date: 3/19/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
2/24/2011	7:11:28	0.008

Model: Dust Trak
Model Number: 8520

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Serial Number: 23441
Test ID: 3
Test Abbreviation: OS
Start Date: 2/24/2011
Start Time: 7:25:31
Duration (dd:hh:mm:ss): 0:01:06:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 66
Notes:

Statistics

Channel: Aerosol
Units: mg/m³
Average: -0.02
Minimum: -0.031
Time of Minimum: 7:48:31
Date of Minimum: 2/24/2011
Maximum: 0
Time of Maximum: 7:37:31
Date of Maximum: 2/24/2011

Calibration

Sensor: Aerosol
Cal. date: 3/19/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
2/24/2011	7:26:31	-0.011
2/24/2011	7:27:31	-0.013
2/24/2011	7:28:31	-0.009
2/24/2011	7:29:31	-0.021
2/24/2011	7:30:31	-0.019
2/24/2011	7:31:31	-0.014
2/24/2011	7:32:31	-0.018
2/24/2011	7:33:31	-0.016
2/24/2011	7:34:31	-0.016
2/24/2011	7:35:31	-0.007
2/24/2011	7:36:31	-0.009
2/24/2011	7:37:31	0
2/24/2011	7:38:31	-0.004
2/24/2011	7:39:31	-0.002
2/24/2011	7:40:31	-0.008
2/24/2011	7:41:31	-0.019
2/24/2011	7:42:31	-0.021
2/24/2011	7:43:31	-0.02
2/24/2011	7:44:31	-0.022

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2/24/2011	7:45:31	-0.024
2/24/2011	7:46:31	-0.028
2/24/2011	7:47:31	-0.03
2/24/2011	7:48:31	-0.031
2/24/2011	7:49:31	-0.027
2/24/2011	7:50:31	-0.025
2/24/2011	7:51:31	-0.027
2/24/2011	7:52:31	-0.019
2/24/2011	7:53:31	-0.024
2/24/2011	7:54:31	-0.02
2/24/2011	7:55:31	-0.021
2/24/2011	7:56:31	-0.02
2/24/2011	7:57:31	-0.003
2/24/2011	7:58:31	-0.025
2/24/2011	7:59:31	-0.022
2/24/2011	8:00:31	-0.024
2/24/2011	8:01:31	-0.023
2/24/2011	8:02:31	-0.022
2/24/2011	8:03:31	-0.021
2/24/2011	8:04:31	-0.02
2/24/2011	8:05:31	-0.02
2/24/2011	8:06:31	-0.021
2/24/2011	8:07:31	-0.025
2/24/2011	8:08:31	-0.024
2/24/2011	8:09:31	-0.024
2/24/2011	8:10:31	-0.027
2/24/2011	8:11:31	-0.025
2/24/2011	8:12:31	-0.022
2/24/2011	8:13:31	-0.026
2/24/2011	8:14:31	-0.025
2/24/2011	8:15:31	-0.02
2/24/2011	8:16:31	-0.023
2/24/2011	8:17:31	-0.022
2/24/2011	8:18:31	-0.022
2/24/2011	8:19:31	-0.021
2/24/2011	8:20:31	-0.01
2/24/2011	8:21:31	-0.018
2/24/2011	8:22:31	-0.015
2/24/2011	8:23:31	-0.024
2/24/2011	8:24:31	-0.022
2/24/2011	8:25:31	-0.024
2/24/2011	8:26:31	-0.023
2/24/2011	8:27:31	-0.019
2/24/2011	8:28:31	-0.027
2/24/2011	8:29:31	-0.028
2/24/2011	8:30:31	-0.03
2/24/2011	8:31:31	-0.031

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Model: Dust Trak
Model Number: 8520
Serial Number: 23441
Test ID: 4
Test Abbreviation: OS
Start Date: 2/24/2011
Start Time: 8:35:45
Duration (dd:hh:mm:ss): 0:05:59:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 359
Notes:

Statistics

Channel: Aerosol
Units: mg/m³
Average: 0.017
Minimum: -0.025
Time of Minimum: 11:31:45
Date of Minimum: 2/24/2011
Maximum: 0.535
Time of Maximum: 12:40:45
Date of Maximum: 2/24/2011

Calibration

Sensor: Aerosol
Cal. date 3/19/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
2/24/2011	8:36:45	0.005
2/24/2011	8:37:45	0.036
2/24/2011	8:38:45	0.001
2/24/2011	8:39:45	0.024
2/24/2011	8:40:45	0.027
2/24/2011	8:41:45	0.002
2/24/2011	8:42:45	0.002
2/24/2011	8:43:45	0.023
2/24/2011	8:44:45	0.020
2/24/2011	8:45:45	0.033
2/24/2011	8:46:45	0.028
2/24/2011	8:47:45	0.018
2/24/2011	8:48:45	0.019
2/24/2011	8:49:45	0.015
2/24/2011	8:50:45	0.020
2/24/2011	8:51:45	0.021

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2/24/2011	8:52:45	0.014
2/24/2011	8:53:45	0.017
2/24/2011	8:54:45	0.012
2/24/2011	8:55:45	0.010
2/24/2011	8:56:45	0.012
2/24/2011	8:57:45	0.017
2/24/2011	8:58:45	0.020
2/24/2011	8:59:45	0.008
2/24/2011	9:00:45	0.025
2/24/2011	9:01:45	0.024
2/24/2011	9:02:45	0.017
2/24/2011	9:03:45	0.016
2/24/2011	9:04:45	0.015
2/24/2011	9:05:45	0.015
2/24/2011	9:06:45	0.000
2/24/2011	9:07:45	-0.008
2/24/2011	9:08:45	-0.007
2/24/2011	9:09:45	-0.005
2/24/2011	9:10:45	-0.006
2/24/2011	9:11:45	-0.005
2/24/2011	9:12:45	0.000
2/24/2011	9:13:45	-0.007
2/24/2011	9:14:45	-0.009
2/24/2011	9:15:45	-0.011
2/24/2011	9:16:45	-0.006
2/24/2011	9:17:45	-0.012
2/24/2011	9:18:45	-0.015
2/24/2011	9:19:45	-0.015
2/24/2011	9:20:45	-0.012
2/24/2011	9:21:45	-0.016
2/24/2011	9:22:45	-0.017
2/24/2011	9:23:45	-0.019
2/24/2011	9:24:45	-0.017
2/24/2011	9:25:45	-0.016
2/24/2011	9:26:45	-0.015
2/24/2011	9:27:45	-0.020
2/24/2011	9:28:45	-0.015
2/24/2011	9:29:45	0.056
2/24/2011	9:30:45	-0.022
2/24/2011	9:31:45	-0.023
2/24/2011	9:32:45	-0.023
2/24/2011	9:33:45	-0.020
2/24/2011	9:34:45	-0.021
2/24/2011	9:35:45	-0.016
2/24/2011	9:36:45	-0.021
2/24/2011	9:37:45	-0.021
2/24/2011	9:38:45	-0.021

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2/24/2011	9:39:45	-0.024
2/24/2011	9:40:45	-0.018
2/24/2011	9:41:45	-0.008
2/24/2011	9:42:45	-0.015
2/24/2011	9:43:45	-0.021
2/24/2011	9:44:45	-0.019
2/24/2011	9:45:45	-0.015
2/24/2011	9:46:45	-0.015
2/24/2011	9:47:45	-0.014
2/24/2011	9:48:45	-0.011
2/24/2011	9:49:45	-0.011
2/24/2011	9:50:45	-0.010
2/24/2011	9:51:45	-0.011
2/24/2011	9:52:45	-0.010
2/24/2011	9:53:45	-0.013
2/24/2011	9:54:45	-0.011
2/24/2011	9:55:45	-0.014
2/24/2011	9:56:45	-0.012
2/24/2011	9:57:45	-0.008
2/24/2011	9:58:45	-0.010
2/24/2011	9:59:45	-0.010
2/24/2011	10:00:45	-0.010
2/24/2011	10:01:45	-0.011
2/24/2011	10:02:45	-0.010
2/24/2011	10:03:45	-0.009
2/24/2011	10:04:45	-0.010
2/24/2011	10:05:45	-0.015
2/24/2011	10:06:45	-0.013
2/24/2011	10:07:45	-0.016
2/24/2011	10:08:45	-0.016
2/24/2011	10:09:45	-0.009
2/24/2011	10:10:45	-0.017
2/24/2011	10:11:45	-0.011
2/24/2011	10:12:45	-0.019
2/24/2011	10:13:45	-0.016
2/24/2011	10:14:45	-0.013
2/24/2011	10:15:45	-0.005
2/24/2011	10:16:45	-0.018
2/24/2011	10:17:45	-0.021
2/24/2011	10:18:45	-0.019
2/24/2011	10:19:45	-0.014
2/24/2011	10:20:45	0.037
2/24/2011	10:21:45	-0.004
2/24/2011	10:22:45	-0.008
2/24/2011	10:23:45	-0.003
2/24/2011	10:24:45	0.035
2/24/2011	10:25:45	0.006

Dust Monitoring Data
City of New Bedford
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February 24, 2011

2/24/2011	10:26:45	0.047
2/24/2011	10:27:45	-0.004
2/24/2011	10:28:45	-0.007
2/24/2011	10:29:45	-0.003
2/24/2011	10:30:45	-0.011
2/24/2011	10:31:45	-0.014
2/24/2011	10:32:45	-0.011
2/24/2011	10:33:45	-0.014
2/24/2011	10:34:45	-0.010
2/24/2011	10:35:45	-0.009
2/24/2011	10:36:45	-0.010
2/24/2011	10:37:45	-0.011
2/24/2011	10:38:45	-0.010
2/24/2011	10:39:45	-0.009
2/24/2011	10:40:45	-0.003
2/24/2011	10:41:45	-0.005
2/24/2011	10:42:45	-0.007
2/24/2011	10:43:45	-0.005
2/24/2011	10:44:45	-0.005
2/24/2011	10:45:45	-0.009
2/24/2011	10:46:45	-0.008
2/24/2011	10:47:45	-0.008
2/24/2011	10:48:45	-0.006
2/24/2011	10:49:45	-0.007
2/24/2011	10:50:45	-0.007
2/24/2011	10:51:45	-0.008
2/24/2011	10:52:45	-0.005
2/24/2011	10:53:45	-0.004
2/24/2011	10:54:45	-0.008
2/24/2011	10:55:45	-0.007
2/24/2011	10:56:45	-0.007
2/24/2011	10:57:45	-0.007
2/24/2011	10:58:45	-0.007
2/24/2011	10:59:45	-0.009
2/24/2011	11:00:45	-0.010
2/24/2011	11:01:45	-0.007
2/24/2011	11:02:45	-0.008
2/24/2011	11:03:45	0.001
2/24/2011	11:04:45	-0.012
2/24/2011	11:05:45	-0.007
2/24/2011	11:06:45	-0.012
2/24/2011	11:07:45	-0.009
2/24/2011	11:08:45	-0.011
2/24/2011	11:09:45	0.061
2/24/2011	11:10:45	0.010
2/24/2011	11:11:45	-0.006
2/24/2011	11:12:45	-0.019

Dust Monitoring Data
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2/24/2011	11:13:45	0.079
2/24/2011	11:14:45	0.008
2/24/2011	11:15:45	-0.004
2/24/2011	11:16:45	-0.016
2/24/2011	11:17:45	-0.004
2/24/2011	11:18:45	-0.014
2/24/2011	11:19:45	-0.013
2/24/2011	11:20:45	0.071
2/24/2011	11:21:45	0.018
2/24/2011	11:22:45	0.001
2/24/2011	11:23:45	-0.019
2/24/2011	11:24:45	-0.020
2/24/2011	11:25:45	-0.022
2/24/2011	11:26:45	-0.017
2/24/2011	11:27:45	-0.015
2/24/2011	11:28:45	-0.017
2/24/2011	11:29:45	-0.022
2/24/2011	11:30:45	-0.019
2/24/2011	11:31:45	-0.025
2/24/2011	11:32:45	-0.022
2/24/2011	11:33:45	-0.001
2/24/2011	11:34:45	-0.023
2/24/2011	11:35:45	0.077
2/24/2011	11:36:45	0.406
2/24/2011	11:37:45	-0.018
2/24/2011	11:38:45	0.109
2/24/2011	11:39:45	-0.008
2/24/2011	11:40:45	0.025
2/24/2011	11:41:45	-0.016
2/24/2011	11:42:45	-0.007
2/24/2011	11:43:45	-0.010
2/24/2011	11:44:45	0.006
2/24/2011	11:45:45	-0.007
2/24/2011	11:46:45	-0.010
2/24/2011	11:47:45	0.009
2/24/2011	11:48:45	-0.013
2/24/2011	11:49:45	-0.002
2/24/2011	11:50:45	0.000
2/24/2011	11:51:45	0.118
2/24/2011	11:52:45	-0.012
2/24/2011	11:53:45	0.041
2/24/2011	11:54:45	0.281
2/24/2011	11:55:45	0.145
2/24/2011	11:56:45	0.065
2/24/2011	11:57:45	0.004
2/24/2011	11:58:45	0.035
2/24/2011	11:59:45	0.039

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February 24, 2011

2/24/2011	12:00:45	0.024
2/24/2011	12:01:45	0.001
2/24/2011	12:02:45	0.008
2/24/2011	12:03:45	-0.012
2/24/2011	12:04:45	-0.008
2/24/2011	12:05:45	-0.001
2/24/2011	12:06:45	0.004
2/24/2011	12:07:45	0.058
2/24/2011	12:08:45	0.193
2/24/2011	12:09:45	0.008
2/24/2011	12:10:45	0.004
2/24/2011	12:11:45	0.000
2/24/2011	12:12:45	-0.004
2/24/2011	12:13:45	0.009
2/24/2011	12:14:45	-0.008
2/24/2011	12:15:45	-0.008
2/24/2011	12:16:45	0.007
2/24/2011	12:17:45	0.001
2/24/2011	12:18:45	0.000
2/24/2011	12:19:45	0.019
2/24/2011	12:20:45	0.073
2/24/2011	12:21:45	0.115
2/24/2011	12:22:45	0.110
2/24/2011	12:23:45	0.063
2/24/2011	12:24:45	0.083
2/24/2011	12:25:45	0.030
2/24/2011	12:26:45	0.047
2/24/2011	12:27:45	0.018
2/24/2011	12:28:45	0.033
2/24/2011	12:29:45	0.036
2/24/2011	12:30:45	0.002
2/24/2011	12:31:45	0.061
2/24/2011	12:32:45	0.000
2/24/2011	12:33:45	0.010
2/24/2011	12:34:45	0.041
2/24/2011	12:35:45	-0.016
2/24/2011	12:36:45	-0.004
2/24/2011	12:37:45	0.073
2/24/2011	12:38:45	-0.004
2/24/2011	12:39:45	-0.012
2/24/2011	12:40:45	0.535
2/24/2011	12:41:45	0.086
2/24/2011	12:42:45	0.182
2/24/2011	12:43:45	0.133
2/24/2011	12:44:45	0.069
2/24/2011	12:45:45	0.046
2/24/2011	12:46:45	0.011

Dust Monitoring Data
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2/24/2011	12:47:45	0.017
2/24/2011	12:48:45	0.055
2/24/2011	12:49:45	0.067
2/24/2011	12:50:45	0.076
2/24/2011	12:51:45	0.061
2/24/2011	12:52:45	0.317
2/24/2011	12:53:45	0.367
2/24/2011	12:54:45	0.064
2/24/2011	12:55:45	0.003
2/24/2011	12:56:45	0.002
2/24/2011	12:57:45	-0.013
2/24/2011	12:58:45	0.001
2/24/2011	12:59:45	0.047
2/24/2011	13:00:45	0.086
2/24/2011	13:01:45	0.095
2/24/2011	13:02:45	0.093
2/24/2011	13:03:45	0.008
2/24/2011	13:04:45	-0.005
2/24/2011	13:05:45	-0.013
2/24/2011	13:06:45	-0.017
2/24/2011	13:07:45	0.003
2/24/2011	13:08:45	-0.002
2/24/2011	13:09:45	0.008
2/24/2011	13:10:45	-0.001
2/24/2011	13:11:45	-0.002
2/24/2011	13:12:45	0.002
2/24/2011	13:13:45	-0.013
2/24/2011	13:14:45	-0.002
2/24/2011	13:15:45	0.001
2/24/2011	13:16:45	-0.015
2/24/2011	13:17:45	-0.007
2/24/2011	13:18:45	-0.015
2/24/2011	13:19:45	0.005
2/24/2011	13:20:45	-0.016
2/24/2011	13:21:45	-0.022
2/24/2011	13:22:45	-0.021
2/24/2011	13:23:45	-0.018
2/24/2011	13:24:45	0.082
2/24/2011	13:25:45	0.008
2/24/2011	13:26:45	0.022
2/24/2011	13:27:45	0.004
2/24/2011	13:28:45	0.066
2/24/2011	13:29:45	-0.021
2/24/2011	13:30:45	-0.016
2/24/2011	13:31:45	0.039
2/24/2011	13:32:45	0.086
2/24/2011	13:33:45	-0.012

Dust Monitoring Data
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2/24/2011	13:34:45	-0.006
2/24/2011	13:35:45	-0.001
2/24/2011	13:36:45	0.028
2/24/2011	13:37:45	0.000
2/24/2011	13:38:45	0.042
2/24/2011	13:39:45	0.025
2/24/2011	13:40:45	0.048
2/24/2011	13:41:45	0.098
2/24/2011	13:42:45	-0.001
2/24/2011	13:43:45	0.052
2/24/2011	13:44:45	0.007
2/24/2011	13:45:45	0.006
2/24/2011	13:46:45	0.049
2/24/2011	13:47:45	-0.019
2/24/2011	13:48:45	0.123
2/24/2011	13:49:45	0.021
2/24/2011	13:50:45	0.061
2/24/2011	13:51:45	0.052
2/24/2011	13:52:45	0.017
2/24/2011	13:53:45	0.050
2/24/2011	13:54:45	0.006
2/24/2011	13:55:45	0.010
2/24/2011	13:56:45	0.008
2/24/2011	13:57:45	-0.018
2/24/2011	13:58:45	-0.004
2/24/2011	13:59:45	0.001
2/24/2011	14:00:45	-0.003
2/24/2011	14:01:45	0.034
2/24/2011	14:02:45	-0.017
2/24/2011	14:03:45	-0.002
2/24/2011	14:04:45	0.009
2/24/2011	14:05:45	0.139
2/24/2011	14:06:45	0.009
2/24/2011	14:07:45	0.176
2/24/2011	14:08:45	0.134
2/24/2011	14:09:45	0.058
2/24/2011	14:10:45	0.205
2/24/2011	14:11:45	0.016
2/24/2011	14:12:45	0.136
2/24/2011	14:13:45	0.000
2/24/2011	14:14:45	-0.011
2/24/2011	14:15:45	0.195
2/24/2011	14:16:45	0.025
2/24/2011	14:17:45	0.052
2/24/2011	14:18:45	0.071
2/24/2011	14:19:45	0.006
2/24/2011	14:20:45	0.021

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2/24/2011	14:21:45	0.014
2/24/2011	14:22:45	0.019
2/24/2011	14:23:45	0.003
2/24/2011	14:24:45	-0.017
2/24/2011	14:25:45	-0.002
2/24/2011	14:26:45	-0.012
2/24/2011	14:27:45	0.038
2/24/2011	14:28:45	0.015
2/24/2011	14:29:45	-0.006
2/24/2011	14:30:45	-0.013
2/24/2011	14:31:45	-0.022
2/24/2011	14:32:45	0.028
2/24/2011	14:33:45	0.005
2/24/2011	14:34:45	-0.018

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 85200998
Test ID: 1
Test Abbreviation: DW/UW at 10am
Start Date: 2/24/2011
Start Time: 6:30:39
Duration (dd:hh:mm:ss): 0:08:02:00
Time constant (seconds): 10
Log Interval (mm:ss): 1:00
Number of points: 482
Notes:

Statistics

Channel: Aerosol
Units: mg/m³
Average: -0.011
Minimum: -0.017
Time of Minimum: 11:25:39
Date of Minimum: 2/24/2011
Maximum: 0.014
Time of Maximum: 9:29:39
Date of Maximum: 2/24/2011

Calibration

Sensor: Aerosol
Cal. date: 8/20/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
2/24/2011	6:31:39	0.002
2/24/2011	6:32:39	0
2/24/2011	6:33:39	-0.003
2/24/2011	6:34:39	-0.005
2/24/2011	6:35:39	-0.004
2/24/2011	6:36:39	-0.006
2/24/2011	6:37:39	-0.005
2/24/2011	6:38:39	-0.005
2/24/2011	6:39:39	-0.005
2/24/2011	6:40:39	-0.004
2/24/2011	6:41:39	-0.003
2/24/2011	6:42:39	-0.003
2/24/2011	6:43:39	-0.004
2/24/2011	6:44:39	-0.003
2/24/2011	6:45:39	-0.003

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2/24/2011	6:46:39	-0.001
2/24/2011	6:47:39	-0.004
2/24/2011	6:48:39	-0.003
2/24/2011	6:49:39	-0.004
2/24/2011	6:50:39	-0.005
2/24/2011	6:51:39	-0.003
2/24/2011	6:52:39	-0.004
2/24/2011	6:53:39	-0.005
2/24/2011	6:54:39	-0.004
2/24/2011	6:55:39	-0.005
2/24/2011	6:56:39	-0.002
2/24/2011	6:57:39	-0.004
2/24/2011	6:58:39	-0.003
2/24/2011	6:59:39	-0.003
2/24/2011	7:00:39	-0.003
2/24/2011	7:01:39	-0.001
2/24/2011	7:02:39	0
2/24/2011	7:03:39	-0.002
2/24/2011	7:04:39	-0.001
2/24/2011	7:05:39	-0.001
2/24/2011	7:06:39	0
2/24/2011	7:07:39	0.002
2/24/2011	7:08:39	0.006
2/24/2011	7:09:39	0.001
2/24/2011	7:10:39	0
2/24/2011	7:11:39	0
2/24/2011	7:12:39	0
2/24/2011	7:13:39	0
2/24/2011	7:14:39	0.003
2/24/2011	7:15:39	0.003
2/24/2011	7:16:39	0
2/24/2011	7:17:39	0.001
2/24/2011	7:18:39	0.001
2/24/2011	7:19:39	0.001
2/24/2011	7:20:39	0
2/24/2011	7:21:39	0
2/24/2011	7:22:39	-0.001
2/24/2011	7:23:39	0
2/24/2011	7:24:39	0
2/24/2011	7:25:39	-0.001
2/24/2011	7:26:39	0
2/24/2011	7:27:39	0
2/24/2011	7:28:39	-0.003
2/24/2011	7:29:39	-0.005
2/24/2011	7:30:39	-0.002
2/24/2011	7:31:39	-0.003

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2/24/2011	7:32:39	-0.004
2/24/2011	7:33:39	-0.004
2/24/2011	7:34:39	-0.002
2/24/2011	7:35:39	-0.002
2/24/2011	7:36:39	-0.002
2/24/2011	7:37:39	-0.002
2/24/2011	7:38:39	-0.003
2/24/2011	7:39:39	-0.002
2/24/2011	7:40:39	-0.001
2/24/2011	7:41:39	-0.004
2/24/2011	7:42:39	-0.006
2/24/2011	7:43:39	-0.007
2/24/2011	7:44:39	-0.007
2/24/2011	7:45:39	-0.007
2/24/2011	7:46:39	-0.007
2/24/2011	7:47:39	-0.007
2/24/2011	7:48:39	-0.007
2/24/2011	7:49:39	-0.007
2/24/2011	7:50:39	-0.006
2/24/2011	7:51:39	-0.006
2/24/2011	7:52:39	-0.005
2/24/2011	7:53:39	-0.005
2/24/2011	7:54:39	-0.005
2/24/2011	7:55:39	-0.005
2/24/2011	7:56:39	-0.005
2/24/2011	7:57:39	-0.004
2/24/2011	7:58:39	-0.006
2/24/2011	7:59:39	-0.006
2/24/2011	8:00:39	-0.005
2/24/2011	8:01:39	-0.006
2/24/2011	8:02:39	-0.007
2/24/2011	8:03:39	-0.005
2/24/2011	8:04:39	-0.005
2/24/2011	8:05:39	-0.006
2/24/2011	8:06:39	-0.005
2/24/2011	8:07:39	-0.007
2/24/2011	8:08:39	-0.006
2/24/2011	8:09:39	-0.007
2/24/2011	8:10:39	-0.005
2/24/2011	8:11:39	-0.005
2/24/2011	8:12:39	-0.006
2/24/2011	8:13:39	0.002
2/24/2011	8:14:39	-0.006
2/24/2011	8:15:39	-0.007
2/24/2011	8:16:39	-0.005
2/24/2011	8:17:39	-0.007

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2/24/2011	8:18:39	-0.006
2/24/2011	8:19:39	-0.006
2/24/2011	8:20:39	-0.005
2/24/2011	8:21:39	-0.008
2/24/2011	8:22:39	-0.006
2/24/2011	8:23:39	-0.007
2/24/2011	8:24:39	-0.007
2/24/2011	8:25:39	-0.007
2/24/2011	8:26:39	-0.007
2/24/2011	8:27:39	-0.007
2/24/2011	8:28:39	-0.008
2/24/2011	8:29:39	-0.008
2/24/2011	8:30:39	-0.009
2/24/2011	8:31:39	-0.009
2/24/2011	8:32:39	-0.008
2/24/2011	8:33:39	-0.008
2/24/2011	8:34:39	-0.01
2/24/2011	8:35:39	-0.007
2/24/2011	8:36:39	-0.009
2/24/2011	8:37:39	-0.009
2/24/2011	8:38:39	-0.008
2/24/2011	8:39:39	-0.009
2/24/2011	8:40:39	-0.01
2/24/2011	8:41:39	-0.008
2/24/2011	8:42:39	-0.01
2/24/2011	8:43:39	-0.008
2/24/2011	8:44:39	-0.008
2/24/2011	8:45:39	-0.007
2/24/2011	8:46:39	-0.008
2/24/2011	8:47:39	-0.007
2/24/2011	8:48:39	-0.007
2/24/2011	8:49:39	-0.006
2/24/2011	8:50:39	-0.006
2/24/2011	8:51:39	-0.005
2/24/2011	8:52:39	-0.006
2/24/2011	8:53:39	-0.004
2/24/2011	8:54:39	-0.007
2/24/2011	8:55:39	-0.007
2/24/2011	8:56:39	-0.005
2/24/2011	8:57:39	-0.005
2/24/2011	8:58:39	-0.005
2/24/2011	8:59:39	-0.006
2/24/2011	9:00:39	-0.006
2/24/2011	9:01:39	-0.005
2/24/2011	9:02:39	-0.005
2/24/2011	9:03:39	-0.005

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	9:04:39	-0.006
2/24/2011	9:05:39	-0.005
2/24/2011	9:06:39	-0.011
2/24/2011	9:07:39	-0.012
2/24/2011	9:08:39	-0.013
2/24/2011	9:09:39	-0.012
2/24/2011	9:10:39	-0.011
2/24/2011	9:11:39	-0.011
2/24/2011	9:12:39	-0.011
2/24/2011	9:13:39	-0.012
2/24/2011	9:14:39	-0.012
2/24/2011	9:15:39	-0.013
2/24/2011	9:16:39	-0.013
2/24/2011	9:17:39	-0.013
2/24/2011	9:18:39	-0.013
2/24/2011	9:19:39	-0.014
2/24/2011	9:20:39	-0.014
2/24/2011	9:21:39	-0.014
2/24/2011	9:22:39	-0.014
2/24/2011	9:23:39	-0.015
2/24/2011	9:24:39	-0.014
2/24/2011	9:25:39	-0.014
2/24/2011	9:26:39	-0.015
2/24/2011	9:27:39	-0.015
2/24/2011	9:28:39	-0.01
2/24/2011	9:29:39	0.014
2/24/2011	9:30:39	-0.016
2/24/2011	9:31:39	-0.015
2/24/2011	9:32:39	-0.016
2/24/2011	9:33:39	-0.015
2/24/2011	9:34:39	-0.015
2/24/2011	9:35:39	-0.014
2/24/2011	9:36:39	-0.015
2/24/2011	9:37:39	-0.015
2/24/2011	9:38:39	-0.015
2/24/2011	9:39:39	-0.016
2/24/2011	9:40:39	-0.007
2/24/2011	9:41:39	-0.015
2/24/2011	9:42:39	-0.015
2/24/2011	9:43:39	-0.015
2/24/2011	9:44:39	-0.015
2/24/2011	9:45:39	-0.014
2/24/2011	9:46:39	-0.014
2/24/2011	9:47:39	-0.014
2/24/2011	9:48:39	-0.014
2/24/2011	9:49:39	-0.012

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	9:50:39	-0.013
2/24/2011	9:51:39	-0.012
2/24/2011	9:52:39	-0.013
2/24/2011	9:53:39	-0.013
2/24/2011	9:54:39	-0.013
2/24/2011	9:55:39	-0.012
2/24/2011	9:56:39	-0.013
2/24/2011	9:57:39	-0.013
2/24/2011	9:58:39	-0.013
2/24/2011	9:59:39	-0.013
2/24/2011	10:00:39	-0.013
2/24/2011	10:01:39	-0.012
2/24/2011	10:02:39	-0.013
2/24/2011	10:03:39	-0.013
2/24/2011	10:04:39	-0.014
2/24/2011	10:05:39	-0.014
2/24/2011	10:06:39	-0.014
2/24/2011	10:07:39	-0.014
2/24/2011	10:08:39	-0.014
2/24/2011	10:09:39	-0.014
2/24/2011	10:10:39	-0.014
2/24/2011	10:11:39	-0.014
2/24/2011	10:12:39	-0.014
2/24/2011	10:13:39	-0.015
2/24/2011	10:14:39	-0.015
2/24/2011	10:15:39	-0.015
2/24/2011	10:16:39	-0.015
2/24/2011	10:17:39	-0.014
2/24/2011	10:18:39	-0.015
2/24/2011	10:19:39	-0.014
2/24/2011	10:20:39	-0.015
2/24/2011	10:21:39	-0.014
2/24/2011	10:22:39	-0.013
2/24/2011	10:23:39	-0.013
2/24/2011	10:24:39	-0.012
2/24/2011	10:25:39	-0.013
2/24/2011	10:26:39	-0.013
2/24/2011	10:27:39	-0.014
2/24/2011	10:28:39	-0.013
2/24/2011	10:29:39	-0.013
2/24/2011	10:30:39	-0.012
2/24/2011	10:31:39	-0.013
2/24/2011	10:32:39	-0.012
2/24/2011	10:33:39	-0.013
2/24/2011	10:34:39	-0.012
2/24/2011	10:35:39	-0.012

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	10:36:39	-0.012
2/24/2011	10:37:39	-0.012
2/24/2011	10:38:39	-0.012
2/24/2011	10:39:39	-0.012
2/24/2011	10:40:39	-0.012
2/24/2011	10:41:39	-0.011
2/24/2011	10:42:39	-0.011
2/24/2011	10:43:39	-0.011
2/24/2011	10:44:39	-0.011
2/24/2011	10:45:39	-0.011
2/24/2011	10:46:39	-0.011
2/24/2011	10:47:39	-0.011
2/24/2011	10:48:39	-0.012
2/24/2011	10:49:39	-0.011
2/24/2011	10:50:39	-0.011
2/24/2011	10:51:39	-0.012
2/24/2011	10:52:39	-0.011
2/24/2011	10:53:39	-0.011
2/24/2011	10:54:39	-0.011
2/24/2011	10:55:39	-0.012
2/24/2011	10:56:39	-0.011
2/24/2011	10:57:39	-0.011
2/24/2011	10:58:39	-0.011
2/24/2011	10:59:39	-0.012
2/24/2011	11:00:39	-0.012
2/24/2011	11:01:39	-0.012
2/24/2011	11:02:39	-0.012
2/24/2011	11:03:39	-0.012
2/24/2011	11:04:39	-0.011
2/24/2011	11:05:39	-0.012
2/24/2011	11:06:39	-0.012
2/24/2011	11:07:39	-0.011
2/24/2011	11:08:39	-0.012
2/24/2011	11:09:39	-0.013
2/24/2011	11:10:39	-0.012
2/24/2011	11:11:39	-0.013
2/24/2011	11:12:39	-0.015
2/24/2011	11:13:39	-0.013
2/24/2011	11:14:39	-0.014
2/24/2011	11:15:39	-0.014
2/24/2011	11:16:39	-0.015
2/24/2011	11:17:39	-0.012
2/24/2011	11:18:39	-0.015
2/24/2011	11:19:39	-0.014
2/24/2011	11:20:39	-0.011
2/24/2011	11:21:39	-0.009

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	11:22:39	-0.011
2/24/2011	11:23:39	-0.015
2/24/2011	11:24:39	-0.016
2/24/2011	11:25:39	-0.017
2/24/2011	11:26:39	-0.016
2/24/2011	11:27:39	-0.015
2/24/2011	11:28:39	-0.015
2/24/2011	11:29:39	-0.016
2/24/2011	11:30:39	-0.017
2/24/2011	11:31:39	-0.017
2/24/2011	11:32:39	-0.016
2/24/2011	11:33:39	-0.014
2/24/2011	11:34:39	-0.016
2/24/2011	11:35:39	-0.016
2/24/2011	11:36:39	-0.015
2/24/2011	11:37:39	-0.016
2/24/2011	11:38:39	-0.017
2/24/2011	11:39:39	-0.017
2/24/2011	11:40:39	-0.015
2/24/2011	11:41:39	-0.016
2/24/2011	11:42:39	-0.016
2/24/2011	11:43:39	-0.017
2/24/2011	11:44:39	-0.015
2/24/2011	11:45:39	-0.015
2/24/2011	11:46:39	-0.015
2/24/2011	11:47:39	-0.015
2/24/2011	11:48:39	-0.015
2/24/2011	11:49:39	-0.016
2/24/2011	11:50:39	-0.016
2/24/2011	11:51:39	-0.016
2/24/2011	11:52:39	-0.016
2/24/2011	11:53:39	-0.016
2/24/2011	11:54:39	-0.015
2/24/2011	11:55:39	-0.015
2/24/2011	11:56:39	-0.013
2/24/2011	11:57:39	-0.015
2/24/2011	11:58:39	-0.015
2/24/2011	11:59:39	-0.016
2/24/2011	12:00:39	-0.015
2/24/2011	12:01:39	-0.015
2/24/2011	12:02:39	-0.014
2/24/2011	12:03:39	-0.014
2/24/2011	12:04:39	-0.014
2/24/2011	12:05:39	-0.014
2/24/2011	12:06:39	-0.013
2/24/2011	12:07:39	-0.013

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	12:08:39	-0.013
2/24/2011	12:09:39	-0.014
2/24/2011	12:10:39	-0.014
2/24/2011	12:11:39	-0.014
2/24/2011	12:12:39	-0.014
2/24/2011	12:13:39	-0.015
2/24/2011	12:14:39	-0.014
2/24/2011	12:15:39	-0.013
2/24/2011	12:16:39	-0.011
2/24/2011	12:17:39	-0.01
2/24/2011	12:18:39	-0.01
2/24/2011	12:19:39	-0.012
2/24/2011	12:20:39	-0.013
2/24/2011	12:21:39	-0.01
2/24/2011	12:22:39	-0.011
2/24/2011	12:23:39	-0.008
2/24/2011	12:24:39	-0.009
2/24/2011	12:25:39	-0.014
2/24/2011	12:26:39	-0.014
2/24/2011	12:27:39	-0.015
2/24/2011	12:28:39	-0.016
2/24/2011	12:29:39	-0.016
2/24/2011	12:30:39	-0.016
2/24/2011	12:31:39	-0.016
2/24/2011	12:32:39	-0.014
2/24/2011	12:33:39	-0.015
2/24/2011	12:34:39	-0.015
2/24/2011	12:35:39	-0.015
2/24/2011	12:36:39	-0.015
2/24/2011	12:37:39	-0.015
2/24/2011	12:38:39	-0.014
2/24/2011	12:39:39	-0.016
2/24/2011	12:40:39	-0.015
2/24/2011	12:41:39	-0.016
2/24/2011	12:42:39	-0.014
2/24/2011	12:43:39	-0.015
2/24/2011	12:44:39	-0.014
2/24/2011	12:45:39	-0.014
2/24/2011	12:46:39	-0.014
2/24/2011	12:47:39	-0.014
2/24/2011	12:48:39	-0.015
2/24/2011	12:49:39	-0.015
2/24/2011	12:50:39	-0.016
2/24/2011	12:51:39	-0.016
2/24/2011	12:52:39	-0.015
2/24/2011	12:53:39	-0.016

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	12:54:39	-0.016
2/24/2011	12:55:39	-0.014
2/24/2011	12:56:39	-0.016
2/24/2011	12:57:39	-0.014
2/24/2011	12:58:39	-0.016
2/24/2011	12:59:39	-0.016
2/24/2011	13:00:39	-0.015
2/24/2011	13:01:39	-0.016
2/24/2011	13:02:39	-0.016
2/24/2011	13:03:39	-0.016
2/24/2011	13:04:39	-0.016
2/24/2011	13:05:39	-0.015
2/24/2011	13:06:39	-0.016
2/24/2011	13:07:39	-0.015
2/24/2011	13:08:39	-0.015
2/24/2011	13:09:39	-0.015
2/24/2011	13:10:39	-0.014
2/24/2011	13:11:39	-0.015
2/24/2011	13:12:39	-0.017
2/24/2011	13:13:39	-0.016
2/24/2011	13:14:39	-0.013
2/24/2011	13:15:39	-0.014
2/24/2011	13:16:39	-0.016
2/24/2011	13:17:39	-0.015
2/24/2011	13:18:39	-0.016
2/24/2011	13:19:39	-0.015
2/24/2011	13:20:39	-0.017
2/24/2011	13:21:39	-0.017
2/24/2011	13:22:39	-0.016
2/24/2011	13:23:39	-0.016
2/24/2011	13:24:39	-0.016
2/24/2011	13:25:39	-0.014
2/24/2011	13:26:39	-0.016
2/24/2011	13:27:39	-0.015
2/24/2011	13:28:39	-0.015
2/24/2011	13:29:39	-0.016
2/24/2011	13:30:39	-0.016
2/24/2011	13:31:39	-0.015
2/24/2011	13:32:39	-0.015
2/24/2011	13:33:39	-0.014
2/24/2011	13:34:39	-0.015
2/24/2011	13:35:39	-0.01
2/24/2011	13:36:39	-0.016
2/24/2011	13:37:39	-0.015
2/24/2011	13:38:39	-0.014
2/24/2011	13:39:39	-0.015

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	13:40:39	-0.016
2/24/2011	13:41:39	-0.015
2/24/2011	13:42:39	-0.015
2/24/2011	13:43:39	-0.015
2/24/2011	13:44:39	-0.015
2/24/2011	13:45:39	-0.016
2/24/2011	13:46:39	-0.015
2/24/2011	13:47:39	-0.016
2/24/2011	13:48:39	-0.014
2/24/2011	13:49:39	-0.014
2/24/2011	13:50:39	-0.015
2/24/2011	13:51:39	-0.014
2/24/2011	13:52:39	-0.014
2/24/2011	13:53:39	-0.015
2/24/2011	13:54:39	-0.015
2/24/2011	13:55:39	-0.015
2/24/2011	13:56:39	-0.015
2/24/2011	13:57:39	-0.015
2/24/2011	13:58:39	-0.015
2/24/2011	13:59:39	-0.015
2/24/2011	14:00:39	-0.015
2/24/2011	14:01:39	-0.015
2/24/2011	14:02:39	-0.016
2/24/2011	14:03:39	-0.016
2/24/2011	14:04:39	-0.015
2/24/2011	14:05:39	-0.015
2/24/2011	14:06:39	-0.016
2/24/2011	14:07:39	-0.015
2/24/2011	14:08:39	-0.015
2/24/2011	14:09:39	-0.016
2/24/2011	14:10:39	-0.015
2/24/2011	14:11:39	-0.016
2/24/2011	14:12:39	-0.016
2/24/2011	14:13:39	-0.016
2/24/2011	14:14:39	-0.015
2/24/2011	14:15:39	-0.016
2/24/2011	14:16:39	-0.016
2/24/2011	14:17:39	-0.014
2/24/2011	14:18:39	-0.015
2/24/2011	14:19:39	-0.012
2/24/2011	14:20:39	-0.006
2/24/2011	14:21:39	-0.008
2/24/2011	14:22:39	-0.01
2/24/2011	14:23:39	-0.013
2/24/2011	14:24:39	-0.013
2/24/2011	14:25:39	-0.015

Dust Monitoring Data
City of New Bedford
HF-31 Removal - Downwind Monitor
February 24, 2011

2/24/2011	14:26:39	-0.016
2/24/2011	14:27:39	-0.015
2/24/2011	14:28:39	-0.016
2/24/2011	14:29:39	-0.016
2/24/2011	14:30:39	-0.016
2/24/2011	14:31:39	-0.015
2/24/2011	14:32:39	-0.013

HF-31 NBHS Excavation Monitoring Summary
 Date: 02/24/11
 Weather: 20° clear WNW Breeze
 Activity: HF-31 Removal

Location	Unit ID	Time	Average	Minimum	Maximum	Comments
UPWIND	3286	start 0636				
ON SITE	4870	start 0641		NA		new setting up + broken, ground in area at 0645
DOWN WIND	0798	start 0632				
UPWIND	3286	0701	-0.001	-0.002	0.012	
ON SITE	4870	0704	-0.030	-0.053	0.046	(- Numbers in cold? Re Cal Zero + Start Log 1 Resist. n 0726 Test 2 Log / Test 3)
DOWN WIND	0798	0712	-0.002	0.008	0.032	
UPWIND	3286	0753	0.000	-0.004	0.012	
ON SITE	4870	0747	-0.014	-0.036	0.012	test 3 Run, Not sure why (-) #'s downward it also low
DOWN WIND	0798	0749	-0.002	-0.010	0.032	
UPWIND	0846 0846	3286	-0.001	-0.005	0.012	
ON SITE	0836	0836	Re	Cal Zero + resist		New Log / test #4 Unit Turned Down ground breaking?
DOWN WIND	0846 0840	0840	-0.004	-0.011	0.043	
UPWIND	3286	start 0953	-0.002	-0.009	0.034	
ON SITE	0836	start 0941	0.001	-0.022	0.297	
DOWN WIND	0798	start 0940	-0.006	-0.036	0.055	
NOTES Units Below operating Temp 32°F - No visible dust						

HF-31 NBHS Excavation Monitoring Summary

Date: 02/24/11

Weather: 200 am - 40 to 45 pm WNW wind - 0950 variable, 5 SE

Activity: HF-31 Removal

Location	Unit ID	Time	Average	Minimum	Maximum	Comments
UPWIND	0798 7098	start 1224	-0.009	-0.036	0.085	Relocated unit
ON SITE	0836	start 1228	0.005	-0.030	2.45	on site to mark making the down wind
DOWN WIND	3286	start 1230	-0.002	-0.009	0.133	trc. upwind + the upwind the down wind
UPWIND	0798 7098	1338	-0.010	-0.036	0.085	1800 change in labels
ON SITE	0836	1337	0.013	-0.030	2.45	
DOWN WIND	3286	1339	-0.003	-0.009	0.389	activity may be by down
UPWIND	0798 7098	1416	-0.011	-0.036	0.085	trunc. unloading clean fill
ON SITE	0836	1417	-0.030	-0.030	2.45	
DOWN WIND	3286	1419	-0.003	-0.009	0.389	
UPWIND						
ON SITE						
DOWN WIND						
UPWIND		STOP				
ON SITE		STOP				
DOWN WIND		STOP				

NOTES Units Below 32°F operating Temp No visible dust

APPENDIX J

Copies of Uniform Hazardous Waste Manifests and Certificates of Disposal

UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID Number: **MP5089974511** 2. Page 1 of 1 3. Emergency Response Phone No: **800 966 9282** 4. Manifest Tracking Number: **004150933 FLE**

5. Generator's Name and Mailing Address: **City of New Bedford, 133 Williams Street, New Bedford, MA 02740**
 Generator's Phone: **508-997-4511**
 Generator's Site Address (if different than mailing address): **City of New Bedford - 230 Hathaway, 230 Hathaway Boulevard, New Bedford, MA 02740**

6. Transporter 1 Company Name: **Transvate Environmental, Inc.** U.S. EPA ID Number: **MAD985286988**
 7. Transporter 2 Company Name: **FRANKS VACUUM TRUCK SERVICE INC.** U.S. EPA ID Number: **NY0982792814**
 8. Designated Facility Name and Site Address: **Waste Services International, Inc., 430 North I-94 Service Drive, Belleville, MI 48111** U.S. EPA ID Number: **MID048090633**
 Facility's Phone: **(800) 592-5489**

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	UN3492, RQ: Polychlorinated biphenyls, solid 9, II	007	CF	05800	K	MA02	PCB1

14. Special Handling Instructions and Additional Information:
 1- (7 x Cable Yard Box) TSCA Contaminated Soil - 2- BUS117WD
 3- 4- Storage start date 022311
 From Area HF-31D
 Unique Cont #5 - 1 thru 7

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: **Cheryl Henlin**
 Signature: *Cheryl Henlin*
 Month Day Year: **02 23 11**

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

17. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: **Peter Capras** Signature: *Peter Capras* Month Day Year: **02 23 11**
 Transporter 2 Printed/Typed Name: **JOHN HANGARTNER** Signature: *John Hangartner* Month Day Year: **3 2 11**

18. Discrepancy
 18a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 added information see 14 per USMA Howard Transvate 3:10:11 AK

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. **PCB** 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest receipt as noted in item 18a
 Printed/Typed Name: **Charles Dewitt** Signature: *Charles Dewitt* Month Day Year: **3 2 11**

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

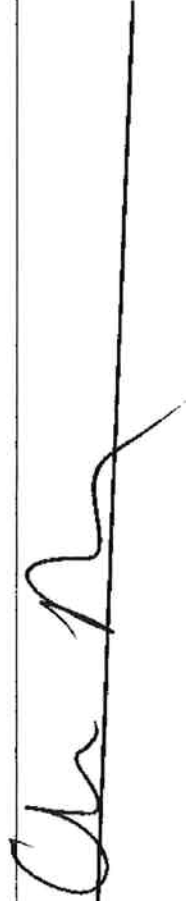
This certificate is to verify the wastes identified as PCB Solid and specified on Manifest # 004150933FE, Line Item 1 has been landfilled on 3-11-2004 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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 are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111
Form # REC-FM-014-BEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document herein used is the current version.

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MP 5089614578	2. Page 1 of 1	3. Emergency Response Phone 800 966 9282	4. Manifest Tracking Number 004150934 FLE			
5. Generator's Name and Mailing Address City of New Bedford 135 Williams Street New Bedford, MA 02740 Generator's Phone: (508) 961-4576 attn: Cheryl Henlin				Generator's Site Address (if different than mailing address) City of New Bedford - 102 Greenwood 102 Greenwood Street New Bedford, MA 02740				
6. Transporter 1 Company Name Trumvirate Environmental, Inc.					U.S. EPA ID Number MA D 9 8 5 2 8 6 9 8 8			
7. Transporter 2 Company Name FRANKS VACUUM TRUCK SERVICE INC					U.S. EPA ID Number NY 0982792214			
8. Designated Facility Name and Site Address EO-Wayne Disposal, Inc. 49350 North I-94 Service Drive Bellville, MI 48111 Facility's Phone: (800) 592-5489					U.S. EPA ID Number MI D 0 4 8 0 9 0 6 3 3			
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 WL/Vol.	13. Waste Codes
X	UN3432, RQ: Polychlorinated biphenyls, solid 9, II			0 0 1 CF		00080	K	MA02 PCB1
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1- (1 x Cubic Yard Box) G105125WDI 2- 3- 4- 050 24211								
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 Cheryl Henlin				Signature Cheryl Henlin		Month Day Year 12 12 11		
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 Peter Capuano				Signature Peter Capuano		Month Day Year 12 12 11		
Transporter 2 Printed/Typed Name JUNN HANGARTNER				Signature Junn Hangartner		Month Day Year 12 12 11		
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. PCB		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 Charles DeWitt				Signature Charles DeWitt		Month Day Year 12 12 11		

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

CERTIFICATE OF DISPOSAL



Form # REC-FM-014-BEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

12/12/08

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
and specified on Manifest # 004150934FEE, Line Item 1 has been landfilled on
3-11-2004 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

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 are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

APPENDIX K

Copy of Bill of Lading



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

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 a Tier Classification Submittal has been provided to DEP for this disposal site:
 a. Tier 1A b. Tier 1B c. Tier 1C d. Tier II
6. If applicable provide the Permit Number: _____

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):
- | | |
|--|---|
| <input type="checkbox"/> a. Immediate Response Action (IRA) | <input type="checkbox"/> e. Comprehensive Response Actions |
| <input checked="" type="checkbox"/> b. Release Abatement Measure (RAM) | <input type="checkbox"/> f. Limited Removal Action (LRA):
(must be retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP) |
| <input type="checkbox"/> c. Downgradient Property Status (DPS) | <input type="checkbox"/> g. Other: _____ |
| <input type="checkbox"/> 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: _____ b. eDEP Transaction ID: _____
 (mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading **2/22/2011** to **2/25/2011**
 (mm/dd/yyyy) (mm/dd/yyyy)

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

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):
- | | | | | |
|---|---|--|--------------------------------------|--|
| <input checked="" type="checkbox"/> a. Soil | <input type="checkbox"/> b. Groundwater | <input type="checkbox"/> c. Surface Water | <input type="checkbox"/> d. Sediment | <input type="checkbox"/> e. Vegetation or Organic Debris |
| <input type="checkbox"/> f. Demolition/Construction Waste | <input type="checkbox"/> g. Inorganic Absorbent Materials | <input checked="" type="checkbox"/> h. Other: HISTORIC FILL | | |
2. Uncontainerized Waste (check all that apply):
- | | |
|---|--|
| <input type="checkbox"/> a. Inorganic Absorbent Materials | <input type="checkbox"/> b. Other: _____ |
|---|--|



Massachusetts Department of Environmental Protection
 Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

4 - 15685

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: **94** Tons Cu. Yds. Gallons

5. Contaminant Source (check one):

- a. Transportation Accident b. Underground Storage Tank c. Brownfields Redevelopment
 d. Other: **HISTORIC FILL ACTIVITIES**

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: **11/24/2010**

(mm/dd/yyyy)

ii. Type of Documentation: **RAM PLAN**

D. TRANSPORTER OR COMMON CARRIER INFORMATION:

1. Transporter/Common Carrier Name: **CITY OF NEW BEDFORD - DEPARTMENT OF PUBLIC INFRASTRUCTURE**

2. Contact First Name: **EUZEBIO**

3. Last Name: **ARRUDA**

4. Street: **1105 SHAWMUT AVENUE**

5. Title: **SUPERINTENDENT OF HIGHWAYS**

6. City/Town: **NEW BEDFORD**

7. State: **MA**

8. Zip Code: **027460000**

9. Telephone: **(508) 991-6395**

10. Ext: _____

11. Fax: **(508) 991-6152**



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

Release Tracking Number

4 - 15685

BILL OF LADING (pursuant to 310 CMR 40.0030)

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Facility Name: **CRAPO HILL LANDFILL**

2. Contact First Name: **HANK** 3. Last Name: **VAN LAARHOVEN**

4. Street: **300 SAMUEL BARNET BLVD** 5. Title: **DIRECTOR OF OPERATIONS**

6. City/Town: **NEW BEDFORD** 7. State: **MA** 8. Zip Code: **027450000**

9. Telephone: **508-763-5924** 10. Ext: 11. Fax:

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: **93537**

15. EPA Identification Number:

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. FAX:

7. Signature: **DAVID M SULLIVAN**

8. Date: **2/21/2011**
(mm/dd/yyyy)

9. LSP Stamp: 



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

4 - **15685**

G. PERSON SUBMITTING BILL OF LADING:

1. Check all that apply: a. change in contact name b. Change of address c. change in person undertaking response actions
2. Name of Organization: _____
3. Contact First Name: **SCOTT** 4. Last Name: **ALFONSE**
5. Street: **133 WILLIAM STREET** 6. Title: **DIRECTOR, ENVIRONMENTAL STEW**
7. City/Town: **NEW BEDFORD** 8. State: **MA** 9. Zip Code: **027400000**
10. Telephone: **5089791487** 11. Ext: _____ 12. Fax: _____

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: _____
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 ATTACHMENTS 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. property address. 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, **Scott Alfonse**, 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: **Scott Alfonse** 3. Title: **DIRECTOR, ENVIRONMENTAL STEWA**
4. For **SCOTT ALFONSE** 5. Date: **2/22/2011**
 (Name of person or entity recorded in Section H) (mm/dd/yyyy)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

4 - **15685**

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 H.

7. Street:

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

11. Telephone: 12. Ext: 13. Fax:

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
2/22/2011 12:10:35 PM

MassDEP's Online Filing System

Username: JSAUNDERS
Nickname: PEFF

LOG OFF

[My eDEP Forms](#) [My Profile](#) [Help](#)

Transaction Overview Trans# 366725 ID# 4-15685 BWSC112 Bill of Lading

[Forms](#) [Attach Files](#) [Signature](#) [Receipt](#)

Summary & Receipt

[Print Receipt](#) [Exit](#)

Your submission is complete. Thank you for using eDEP's online reporting system. Select My eDEP to see a list of your transactions. Click Print Receipt to save a copy of this receipt for your records.

DEP Transaction ID: 366725
Date and Time Submitted: 2/22/2011 12:10:35 PM
Other Email :

Form Name: BWSC112 Bill of Lading

RTN: 4-15685
Location: PARKER STREET WASTE SITE
Address: 230 HATHAWAY BLVD, NEW BEDFORD, 027400000

Person Making Submittal

SCOTT ALFONSE
133 WILLIAM STREET
NEW BEDFORD, MA 027400000

LSP
LSP #: 1488
LSP Name

Person Making Certification

SCOTT ALFONSE
Scott Alfonse
SCOTT ALFONSE
Scott Alfonse

Additional Forms Submitted



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

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: **02740-0000**
5. Check her if a Tier Classification Submittal has been provided to DEP for this disposal site:
- a. Tier 1A b. Tier 1B c. Tier 1C d. Tier II
6. If applicable provide the Permit Number:

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: **2/22/2011 12:10:3** b. eDEP Transaction ID: **366725**
(mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading **2/22/2011** to **2/25/2011**
(mm/dd/yyyy) (mm/dd/yyyy)

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

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)

Release Tracking Number

4 - 15685

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: **CITY OF NEW BEDFORD - DEPARTMENT OF PUBLIC INFRASTRUCTURE**

2. Contact First Name: **EUZEBIO** 3. Last Name: **ARRUDA**

4. Street: **1105 SHAWMUT AVENUE** 5. Title: **SUPERINTENDENT OF HIGHWAYS**

6. City/Town: **NEW BEDFORD** 7. State: **MA** 8. Zip Code: **02746-0000**

9. Telephone: **(508) 991-6395** 10. Ext: _____ 11. Fax: **(508) 991-6152**



BILL OF LADING (pursuant to 310 CMR 40.0030)

4 - 15685

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Facility Name: **CRAPO HILL LANDFILL**

2. Contact First Name: **HANK** 3. Last Name: **VAN LAARHOVEN**

4. Street: **300 SAMUEL BARNET BLVD** 5. Title: **DIRECTOR OF OPERATIONS**

6. City/Town: **NEW BEDFORD** 7. State: **MA** 8. Zip Code: **02745-0000**

9. Telephone: **(508) 763-5924** 10. Ext: 11. Fax:

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: **93537**

15. EPA Identification Number:

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 #:

2. First Name: 3. Last Name:

4. Telephone: 5. Ext.

6. FAX:

7. Signature:

8. Date:
(mm/dd/yyyy)

9. LSP Stamp:



Massachusetts Department of Environmental Protection
 Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

4 - 15685

G. PERSON SUBMITTING BILL OF LADING:

1. Check all that apply: a. change in contact name b. Change of address c. change in person undertaking response actions
2. Name of Organization: _____
3. Contact First Name: **SCOTT** 4. Last Name: **ALFONSE**
5. Street: **133 WILLIAM STREET** 6. Title: **DIRECTOR, ENVIRONMENTAL STEWA**
7. City/Town: **NEW BEDFORD** 8. State: **MA** 9. Zip Code: **02740-0000**
10. Telephone: **(508) 979-1487** 11. Ext: _____ 12. Fax: _____

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: _____
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 ATTACHMENTS 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. property address. 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: _____
4. For: _____ (Name of person or entity recorded in Section H) 5. Date: _____ (mm/dd/yyyy)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112

BILL OF LADING (pursuant to 310 CMR 40.0030)

Release Tracking Number

4 - **15685**

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 H.

7. Street:

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

11. Telephone: 12. Ext: 13. Fax:

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):



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING Transport Log Sheet

Release Tracking Number

Page 1 OF 3

4 - 15685

I. LOAD INFORMATION:

Load 1:

Date of Shipment:

2-24-11

Signature of Transporter Representative:

Mark Spurr

Time of Shipment:

7:15 AM PM

Receiving Facility/Temporary Storage Representative:

CHL

Date of Receipt:

2/24/11

Time of Receipt:

7:25 AM PM

Truck/Tractor Registration:

554 M75881

Trailer Registration (if any):

Load Size (cu. yds./tons):

20.81

Load 2:

Date of Shipment:

2-24-11

Signature of Transporter Representative:

Mark Spurr

Time of Shipment:

8:20 AM PM

Receiving Facility/Temporary Storage Representative:

CHL

Date of Receipt:

2/24/11

Time of Receipt:

8:45 AM PM

Truck/Tractor Registration:

554 M75881

Trailer Registration (if any):

Load Size (cu. yds./tons):

20.53

Load 3:

Date of Shipment:

2-24-11

Signature of Transporter Representative:

Mark Spurr

Time of Shipment:

9:46 AM PM

Receiving Facility/Temporary Storage Representative:

CHL

Date of Receipt:

2/24/11

Time of Receipt:

10:06 AM PM

Truck/Tractor Registration:

554 M75881

Trailer Registration (if any):

Load Size (cu. yds./tons):

19.54

Load 4:

Date of Shipment:

2-24-11

Signature of Transporter Representative:

Mark Spurr

Time of Shipment:

11:11 AM PM

Receiving Facility/Temporary Storage Representative:

CHL

Date of Receipt:

2/24/11

Time of Receipt:

11:30 AM PM

Truck/Tractor Registration:

554 M75881

Trailer Registration (if any):

Load Size (cu. yds./tons):

9.81

Load 5:

Date of Shipment:

Time of Shipment:

AM PM

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

AM PM

Truck/Tractor Registration:

Trailer Registration (if any):

Load Size (cu. yds./tons):

Load 6:

Date of Shipment:

Time of Shipment:

AM PM

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

AM PM

Truck/Tractor Registration:

Trailer Registration (if any):

Load Size (cu. yds./tons):

J. LOG SHEET VOLUME INFORMATION:

Total Volume Recorded This Page (cu. yds./tons): 70.69

Total Carried Forward (cu. yds./tons): 0

Total Carried Forward and This Page (cu. yds./tons): 70.69



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING Transport Log Sheet

Release Tracking Number

Page 2 OF 3

4 - 15685

I. LOAD INFORMATION: Signature of Transporter Representative: _____

Load 1: Receiving Facility/Temporary Storage Representative: CHL GW17

Date of Shipment: 2/24/11 Time of Shipment: 8:00 Date of Receipt: 2/24/11 Time of Receipt: 7:49
 AM PM AM PM

Truck/Tractor Registration: M83742 Trailer Registration (if any): _____

Load Size (cu. yds./tons): 20.39

Signature of Transporter Representative: _____

Load 2: Receiving Facility/Temporary Storage Representative: CHL

Date of Shipment: 2/24/11 Time of Shipment: 8:45 Date of Receipt: 2/24/11 Time of Receipt: 9:05
 AM PM AM PM

Truck/Tractor Registration: M83742 Trailer Registration (if any): _____

Load Size (cu. yds./tons): 19.93

Signature of Transporter Representative: _____

Load 3: Receiving Facility/Temporary Storage Representative: CHL GM

Date of Shipment: 2/24/11 Time of Shipment: 10:35 Date of Receipt: 2/24/11 Time of Receipt: 10:55
 AM PM AM PM

Truck/Tractor Registration: M83742 Trailer Registration (if any): _____

Load Size (cu. yds./tons): 20.27

Load 4: Signature of Transporter Representative: _____

Date of Shipment: _____ Time of Shipment: _____
 AM PM

Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____

Date of Receipt: _____ Time of Receipt: _____
 AM PM

Load Size (cu. yds./tons): _____

Load 5: Signature of Transporter Representative: _____

Date of Shipment: _____ Time of Shipment: _____
 AM PM

Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____

Date of Receipt: _____ Time of Receipt: _____
 AM PM

Load Size (cu. yds./tons): _____

Load 6: Signature of Transporter Representative: _____

Date of Shipment: _____ Time of Shipment: _____
 AM PM

Truck/Tractor Registration: _____ Trailer Registration (if any): _____

Receiving Facility/Temporary Storage Representative: _____

Date of Receipt: _____ Time of Receipt: _____
 AM PM

Load Size (cu. yds./tons): _____

J. LOG SHEET VOLUME INFORMATION:

Total Volume Recorded This Page (cu. yds./tons) 60.59

Total Carried Forward (cu. yds./tons) 70.69

Total Carried Forward and This Page (cu. yds./tons) 131.28



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING Transport Log Sheet

Release Tracking Number

Page 3 OF 3

4 - 15685

I. LOAD INFORMATION: Signature of Transporter Representative: _____ Receiving Facility/Temporary Storage Representative: _____

Load 1:
 Date of Shipment: 2-24-2011 Time of Shipment: 0742 AM PM
 Date of Receipt: 2/24/11 Time of Receipt: 8:07 AM PM
 Truck/Tractor Registration: M50838 Trailer Registration (if any): _____
 Load Size (cu. yds./tons): 18.45

Load 2: Signature of Transporter Representative: _____ Receiving Facility/Temporary Storage Representative: _____

Date of Shipment: 2-24-11 Time of Shipment: 9:00 AM PM
 Date of Receipt: 2/24/11 Time of Receipt: 9:31 AM PM
 Truck/Tractor Registration: M50838 Trailer Registration (if any): _____
 Load Size (cu. yds./tons): 17.94

Load 3: Signature of Transporter Representative: _____ Receiving Facility/Temporary Storage Representative: _____

Date of Shipment: _____ Time of Shipment: _____ AM PM
 Date of Receipt: _____ Time of Receipt: _____ AM PM
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____
 Load Size (cu. yds./tons): _____

Load 4: Signature of Transporter Representative: _____ Receiving Facility/Temporary Storage Representative: _____

Date of Shipment: _____ Time of Shipment: _____ AM PM
 Date of Receipt: _____ Time of Receipt: _____ AM PM
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____
 Load Size (cu. yds./tons): _____

Load 5: Signature of Transporter Representative: _____ Receiving Facility/Temporary Storage Representative: _____

Date of Shipment: _____ Time of Shipment: _____ AM PM
 Date of Receipt: _____ Time of Receipt: _____ AM PM
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____
 Load Size (cu. yds./tons): _____

Load 6: Signature of Transporter Representative: _____ Receiving Facility/Temporary Storage Representative: _____

Date of Shipment: _____ Time of Shipment: _____ AM PM
 Date of Receipt: _____ Time of Receipt: _____ AM PM
 Truck/Tractor Registration: _____ Trailer Registration (if any): _____
 Load Size (cu. yds./tons): _____

J. LOG SHEET VOLUME INFORMATION:

Total Volume Recorded This Page (cu. yds./tons): 36.39
 Total Carried Forward (cu. yds./tons): 131.78
 Total Carried Forward and This Page (cu. yds./tons): 167.67

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT
 300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02746 TEL: (508) 763-8624 FAX: (508) 763-8624

CRAPO HILL LANDFILL

Ticket: 307012
 Date: 2/24/2011
 Time: 07:25:55 - 07:26:42

SCALE PHONE 508-998-5674

Trucks: 105-554
 Customers: 105/CITY OF NEW BEDFORD -
 Carriers: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Gross: 70800 LB Scale
 Tare: 29180 LB PreTare
 Net: 41620 LB

Comments: N B HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	20.81 Tons

Drivers: *Neil J...* Deputy Weighmasters: GEORGE MACIEL

Change to NBHS School Dep.

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT
 300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02746 TEL: (508) 763-8624 FAX: (508) 763-8624

CRAPO HILL LANDFILL

Ticket: 307013
 Date: 2/24/2011
 Time: 07:49:12 - 07:49:44

SCALE PHONE 508-998-5674

Trucks: 105-551
 Customers: 105/CITY OF NEW BEDFORD -
 Carriers: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Gross: 66480 LB Scale
 Tare: 25640 LB PreTare
 Net: 40840 LB

Comments: N NB HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	20.39 Tons

Drivers: *Jerry R...* Deputy Weighmasters: GEORGE MACIEL

Change to NBHS School Dep.

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT

300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02745 TEL: (508) 763-8924 FAX: (508) 763-8824

CRAPO HILL LANDFILL

Ticket: 307014
Date: 2/24/2011
Time: 08:06:42 - 08:07:18

SCALE PHONE 508-998-5674

Trucks: 105-553
Customers: 105/CITY OF NEW BEDFORD -
Carrier: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Gross: 63460 LB Scale
Tare: 26560 LB PreTare
Net: 36900 LB

Comments: N B HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	18.45 Tons

Drivers: Herman Maciel Deputy Weighmasters: GEORGE MACIEL

Change to NBHS School Dep.

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT

300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02745 TEL: (508) 763-8924 FAX: (508) 763-8824

CRAPO HILL LANDFILL

Ticket: 307017
Date: 2/24/2011
Time: 08:38:43 - 08:39:09

SCALE PHONE 508-998-5674

Trucks: 105-554
Customers: 105/CITY OF NEW BEDFORD -
Carrier: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Gross: 70240 LB Scale
Tare: 29180 LB PreTare
Net: 41060 LB

Comments: NB HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	20.53 Tons

Drivers: Mr. Singh Deputy Weighmasters: GEORGE MACIEL

Change to NBHS School Dep.

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT
300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02748 TEL: (508) 763-8824 FAX: (508) 763-8824

CRAPO HILL LANDFILL

Ticket: 307021
Date: 2/24/2011
Time: 09:05:39 - 09:05:54

SCALE PHONE 508-998-5674

Gross: 65500 LB Scale
Tare: 26640 LB PreTare
Net: 39860 LB

Trucks: 105-551
Customer: 105/CITY OF NEW BEDFORD -
Carrier: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Comments: N B HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	19.93 Tons

Drivers: Jerry C.
Change to NBHS School Dep.

Deputy Weighmasters: LEE FERREIRA

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT
300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02745 TEL: (508) 763-8824 FAX: (508) 763-8824

CRAPO HILL LANDFILL

Ticket: 307024
Date: 2/24/2011
Time: 09:31:08 - 09:31:17

SCALE PHONE 508-998-5674

Gross: 62440 LB Scale
Tare: 26560 LB PreTare
Net: 35880 LB

Trucks: 105-553
Customer: 105/CITY OF NEW BEDFORD -
Carrier: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Comments: NB HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	17.94 Tons

Drivers: Harold
Change to NBHS School Dep.

Deputy Weighmasters: LEE FERREIRA

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT

300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02745 TEL: (508) 763-6924 FAX: (508) 763-6924

CRAPD HILL LANDFILL

Ticket: 307033
Date: 2/24/2011
Time: 10:06:31 - 10:06:44

SCALE PHONE 508-998-5674

Trucks: 105-554
Customer: 105/CITY OF NEW BEDFORD -
Carrier: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Gross: 68260 LB Scale
Tare: 29180 LB PreTare
Net: 39080 LB

Comments: NB HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	19.54 Tons

Driver: Mike Syppl

Deputy Weighmasters: _____

LEE FERREIRA

Change to NBHS School Dep.

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT

300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02745 TEL: (508) 763-6924 FAX: (508) 763-6924

CRAPD HILL LANDFILL

Ticket: 307041
Date: 2/24/2011
Time: 10:50:44 - 10:52:24

SCALE PHONE 508-998-5674

Trucks: 105-551
Customer: 105/CITY OF NEW BEDFORD -
Carrier: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Gross: 66100 LB Scale
Tare: 25640 LB PreTare
Net: 40460 LB

Comments: N B HIGH SCHOOL

Origin	Materials & Services	Quantity
NEW/NEW BEDFORD	52/C.H.L. SPECIAL WASTE	20.27 Tons

Driver: Jerry A

Deputy Weighmasters: _____

LEE FERREIRA

Change to NBHS School Dep.

HAULER COPY

GREATER NEW BEDFORD REGIONAL REFUSE AND WASTE AUTHORITY

300 SAMUEL BARNET BLVD., NEW BEDFORD, MA 02746 TEL: (508) 752-1100 FAX: (508) 752-1101

GRAND HILL LANDFILL

SCALE PHONE 508-998-5674

Trucks: 105-55A
Customer: 105/CITY OF NEW BEDFORD --
Carrier: SAC/SAME AS CUSTOMER Truck Type: DUMP TRUCK

Comments: N.B. HIGH SCHOOL

Ticket: 307047
Date: 2/24/2011
Time: 11:29:53 - 11:30:20

Gross: 48900 LB Scale
Tare: 29180 LB Pretare
Net: 19620 LB

Origin: NEW/NEW BEDFORD Materials & Services: 52/C.H.L. SPECIAL WASTE Quantity: 9.81 Tons

Drivers: MS
Change To NBRS School Dep.

Deputy Weighmaster: LEE FERREIRA

HAULER COPY



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC112B

Release Tracking Number

BILL OF LADING (pursuant to 310 CMR 46.0030)
SUMMARY SHEET SIGNATURE PAGE

4 - 15685

A. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE:

1. I, HANK VAN LAARHOVEN, 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. (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: Hank Van Laarhoven 3. Title: DIRECTOR OF OPERATIONS

4. For: CRAPO HILL LANDFILL 9 5. Date: 03/09/2011
(mm/dd/yyyy)

6. Date of Final Shipment associated with this Bill of Lading: 2/24/2011
(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, SCOTT ALFONSE, 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. (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: Scott Alfonse 3. Title: DIRECTOR, ENV. STEWARDSHIP

4. For: CITY OF NEW BEDFORD 5. Date: 3/9/2011
(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 H.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. Zip Code: _____

11. Telephone: _____ 12. Ext: _____ 13. Fax: _____

14. Check here if attaching optional supporting documentation such as copies of Load Information Summary Sheets