

**CONCORD AVENUE NEIGHBORHOOD SEWER SEPARATION AND SURFACE
IMPROVEMENTS PROJECT
CONTRACT 9
CAMBRIDGE, MA
REVISED UTILITY RELATED ABATEMENT MEASURE (URAM) PLAN
RTN 3-32044

MARCH 2014**



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FIGURE

Figure 1 URAM Boundary Plan

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APPENDICES

Appendix A BWSC 119: URAM Notification Form
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1. INTRODUCTION

This revised Utility Related Abatement Measure (URAM) Plan is being submitted by Kleinfelder on behalf of the City of Cambridge, Massachusetts Department of Public Works (DPW) to allow for the management of soil and groundwater impacted by oil or hazardous materials (OHM) above Massachusetts Contingency Plan (MCP) RCS-1 and RCGW-1 Reportable Concentrations. The revision to the original URAM Plan, submitted on March 19, 2014, describes pre-construction sample collection and analysis conducted by Kleinfelder on behalf of the DPW and provides and discusses sample analytical data. These were not included in the original URAM Plan, pending review and discussion of the information with DPW and the Cambridge Public Health Department.

Kleinfelder is providing engineering design and construction support to the City of Cambridge, DPW for the Concord Avenue Neighborhood (Contract 9) Sewer Separation and Surface Improvements Project in Cambridge, Massachusetts (Concord Avenue Project). The Concord Avenue Project is part of the Massachusetts Water Resources Authority (MWRA) Long Term Combined Sewer Overflow (CSO) Control Plan for the Alewife Brook, which will separate existing combined sewers and provide dedicated sanitary sewers and storm water drains. The General Contractor for the construction of the Concord Avenue Project is P. Gioioso & Sons Inc. (PGS).

Kleinfelder is submitting this URAM Plan in response to the presence of existing MCP sites that may have impacts in the project work area, and findings of chlorinated volatile organic compounds (CVOCs) and petroleum-related compounds at concentrations exceeding MCP Reportable Concentrations in samples collected by Kleinfelder from the project area in the public Right of Way (ROW). The URAM addresses work performed in the public ROW only. Work on private property or on private properties with Activity and Use Limitations (AUL) will be addressed separately as URAMs or Release Abatement Measures (RAMs) if necessary.

Verbal notification of the City's intent to conduct a URAM was provided to the Massachusetts Department of Environmental Protection (MassDEP) on March 12, 2014. MassDEP assigned Release Tracking Number (RTN) 3-32044 to this URAM. Figure 1, URAM Boundary Plan, indicates the area of work associated with the Concord Avenue Project and covered under this URAM. Soils excavated from the ROW as part of the Concord Avenue Project, and containing OHM at concentrations greater than RCS-1, will be managed under RTN 3-32044. At the discretion of the Licensed Site Professional (LSP)-of-Record, a separate URAM may be initiated

if a distinct and separate area or type of contamination is encountered. Management of remediation waste on private properties, if required, will be performed under a separate URAM or RAM. A Bureau of Waste Site Cleanup (BWSC) Transmittal Form BWSC-119 (URAM Transmittal) was submitted electronically concurrent with this written plan utilizing eDEP. A validated (unsigned) copy is attached as Appendix A for reference purposes.

2. PERSON UNDERTAKING URAM

This URAM is being implemented by the City of Cambridge, Department of Public Works.

Contact: Ms. Katherine Watkins
Acting City Engineer

Address: Cambridge Department of Public Works
147 Hampshire Street
Cambridge, Massachusetts 02139

Tel.: 617-349-4800

3. LICENSED SITE PROFESSIONAL

Because greater than 20 cubic yards of contaminated soil may be encountered and require management under this URAM, a LSP must oversee implementation of the URAM. The LSP of Record for this URAM will be:

Martha L. Zirbel
LSP License No. 9451
Kleinfelder
215 First Street, Suite 320
Cambridge, MA 02142
Telephone: 617-497-7800

4. UTILITY PROJECT DESCRIPTION

The Concord Avenue Project is part of the MWRA Long Term CSO Control Plan for the Alewife Brook, which will separate existing combined sewers and provide dedicated sanitary sewers and stormwater drains. The principal goals of the project are to: improve water quality in the Alewife Brook by eliminating combined sewer overflows; protect Fresh Pond Reservoir from potential contaminants; and, control the occurrences of street flooding and sewer and stormwater backups on public and private properties.

The Concord Avenue Project will include the separation of approximately 25,000 linear feet of combined sewer through the replacement, rehabilitation or addition of reinforced concrete pipe (RCP), polyvinyl chloride (PVC) and ductile iron storm and sewer pipe ranging from eight to 48 inches in diameter, the installation of manholes, the replacement and addition of approximately 113 catch basins, and the removal of illicit service and inflow connections and private inflow removal work for 31 buildings.

In addition to sewer separation work, the Concord Avenue Project includes infrastructure replacement and rehabilitation of approximately 9,700 linear feet of water main, upgrades of water, cable, gas and electric services, full depth roadway reconstruction, traffic calming measures, sidewalk upgrades, tree planting and the installation of porous pavement, underdrains, biobasins and planting areas including tree pits, and installation of a park entrance to Danehy Park at the intersection of Garden and Hazel Street, and associated walkways within Danehy Park.

The Concord Avenue Project area addressed in by this URAM includes the public ROWs in Concord Avenue between Fresh Pond Parkway and Huron Avenue, Alpine Street and Chilton Street between Vassal Lane and Field Street, Fayerweather Street between Saville Street and Field Street, Birch Street, Fern Street, Bay State Road, Field Street, Corporal Burns Road, Hazel Street, Ivy Street, Copley Street, Garden Street between Field Street and Walden Street, Saville Street between Fayerweather Street and Walden Street, and Walden Street between Concord Avenue and Garden Street. The URAM area is shown in Figure 1.

The Concord Avenue Project includes removal of weir and hydroslide structures at Lexington Avenue near Worthington Street and Lakeview Avenue near Fresh Pond Parkway; modifications to the Bending Weir Structure and Drain Vault 5 and abandonment of an MWRA sewer located at the Fresh Pond Rotary and on Wheeler Street; and work within existing

structures at the Concord Ave rotary. These activities are located outside of the URAM area and are not addressed under this URAM.

The Concord Avenue Project includes excavation and off-site reuse or disposal of approximately 58,000 tons of soil. Based on an environmental evaluation of the Concord Avenue Project area and experience to date in the area, it is estimated that 20,000 to 45,000 tons of soil may be managed under this URAM.

Work associated with the Concord Avenue Project began in February 2014 and is anticipated to continue through approximately August 2016.

5. ENVIRONMENTAL ASSESSMENT OF URAM AREA

Based on historic land uses and existing listed disposal sites, excavation and dewatering may potentially encounter hazardous conditions or result in the generation of contaminated soil and groundwater that must be managed under a URAM. These conditions are as follows:

- Proximity of work on Field Street and Garden Street to the former Cambridge Dump, currently operated as Danehy Park, and the location of reported releases of methane;
- Fill, potentially containing ash and debris, historically used in clay pits and low-lying areas west of Walden Street that may be encountered in the public ROW;
- Current or former gasoline stations with known releases of petroleum at 480 Fresh Pond Parkway and at 191/199, 297, 299, and 343 Concord Avenue;
- Proximity of work on Concord Avenue, Bay State Road, and Birch, Fern and Field Streets to releases of Resource Conservation and Recovery Act (RCRA) listed wastes, located at 23 Bay State Road and 445 Concord Avenue; and
- Proximity of work to properties with AULs located at 23 Bay State Road and at 450 and 191/199 Concord Avenue.

These conditions are described in more detail below and their locations are depicted on Figure 1.

5.1 HISTORIC FILL AND LAND USES

Based on a review of historical maps, the Concord Avenue Project area was sparsely settled in the mid-1800s. The area was developed into the present configuration of roads and buildings by the mid-1900s. The areas east of Fern Street and Alpine Street have remained primarily residential, while the areas closer to Fresh Pond Parkway have been developed into commercial or industrial areas.

Based on an 1866 map, most of the Concord Avenue Project area west of Walden Street consisted of wetlands identified as “Brickyard Swamp”, part of the “Great Swamp” associated with Fresh Pond and Alewife Brook. Based on an 1886 Hopkins Atlas and an 1894 Bromley Atlas, the entire area was occupied by brickyards. Several large buildings were noted.

A 1904 plan indicates the presence of multiple clay pit ponds in the Concord Avenue Project area west of Walden Street and both north and south of Concord Avenue. The largest two pits were located: 1) north of Field and Garden Streets, later used as the City Dump and the location of the current Danehy Park; and 2) bounded by Vassal Lane, Fresh Pond Parkway, Concord Avenue, and Alpine Street, currently occupied by the Tobin School, the Armory (National Guard building), and ball fields. Other pits or ponds were identified between Concord Avenue and Field Street and between Field and Garden Streets. These pits are no longer present. It was common historical practice to fill ponds and pits with wastes, particularly ash and debris. Such wastes may be encountered during excavation anywhere in the Concord Avenue Project area.

The closed landfill may also be a source of landfill gas, which could be encountered during excavation in Field Street or Garden Street. Methane gas has been reported at Briston Arms, a multi-unit residence located off Garden Street adjacent to the landfill.

5.2 EXISTING RELEASES

Multiple MCP disposal sites exist within or abutting the overall Concord Avenue Project limits. Contamination associated with some of the disposal sites may have impacted soil or groundwater within the planned excavation areas in the ROW. A review of the MassDEP Site database indicated the following MCP Disposal Sites in proximity to the Concord Avenue Project area as shown on Figure 1:

RTN 3-959 and RTN 3-12881, 445 Concord Avenue is the location of the Former Midland Ross Company and currently operates as Cambridge Self Storage. This Site occupies the entire block between Birch Street and Fern Street, and extends east of Fern Street towards Corporal

Burns Road. Uses of the property by the Midland Ross Corporation, an electronics manufacturer, prior to 1986 resulted in releases of chlorinated solvents and petroleum to the subsurface. Additionally, Site soils have been noted to contain brick, cinders, glass, wood, rubber, and metal, as well as peat. Since 1988, the most prevalent compounds detected at the Site were the CVOCs trichloroethylene (TCE), 1,2 dichloroethene (DCE) and vinyl chloride (VC). The highest concentrations of CVOC contamination is located in the northern portion of Fern Street, with dense non-aqueous phase liquid (DNAPL) located on top of a clay layer at about 10 feet below grade; soil impacts have been identified from the surface to approximately 15 feet below grade. A DNAPL recovery system was installed in 1992 at this location and currently operates with one pump. Volatile petroleum hydrocarbons (VPH), extractible petroleum hydrocarbons (EPH) and multiple types of light non-aqueous phase liquid (LNAPL) are also present. These contaminants are concentrated in the center of the block between Fern Street and Birch Street. Hand bailing of LNAPL is performed regularly. A Class C-1 Response Action Outcome (RAO) was filed for the Site on February 7, 2006. The most recent status report for the Site was filed on September 16, 2013. Based on sampling conducted in 2011 and 2012, LNAPL was reported at greater than six inches thickness in one location but was not located in the ROW. DNAPL was reported at five inches thickness at the recovery well adjacent to the Fern Street ROW. Indoor air monitoring is being performed at a residence at 74 Field Street and at the offices at the storage facility.

Work on this property is likely to include connection of a drywell overflow to the storm drain in a manhole on Birch Street; connection of a roof drain lateral to a storm drain on Fern Street; connection of an area drain to a storm drain on Fern Street; as well as sewer separation and water line installation work in the abutting streets ROW. Based on the conditions reported, CVOCs as DNAPL may be encountered during work in Fern Street. CVOCs and/or petroleum hydrocarbons may be encountered in soil or groundwater on Fern Street, Birch Street, Field Street, Bay State Road, and/or Concord Avenue ROWs as well as on the 445 Concord Avenue property. CVOC or petroleum product vapors may also be encountered during excavation or soil management.

DNAPL recovered from this Site is currently disposed of by the Responsible Party as a RCRA hazardous waste. CVOC-impacted soil and groundwater may also be subject to disposal as RCRA F-listed hazardous waste, depending on the concentrations encountered. Soil removed from the lateral limits of excavation with concentrations of CVOCs above S-1/GW-1 MCP risk characterization standards would be classified as a listed RCRA Waste. Soils in this category, once removed from the lateral limits of excavation may not be replaced in the excavation.

RTN 3-15863, 23 Bay State Road is the location of polycyclic aromatic hydrocarbons (PAHs), and tetrachloroethene (PCE) identified in soil excavated during construction of a building addition at a property formerly owned by 3M. The RTN was assigned in 1997 and a RAM was implemented to manage soils from the excavation. PCE (41 mg/kg) and TCE were identified in the soils; CVOCs were detected in groundwater on the northwest side of the property. Measured groundwater elevations indicated a significant flow gradient toward the New Street Pump Station northeast of the property. The LSP for that Site concluded that the pump station capture limited the off-site migration of contaminated groundwater from the Site. An A-2 RAO was submitted in 2001. In July 2003, 3M Corporation (as a Potentially Responsible Party (PRP)) performed additional sampling at the Site prior to the sale of the property to 23 Bay State Road Limited Partnership. A MassDEP audit in 2009 indicated that the submittal was invalid and additional assessment work was required. 3M, which remains the primary PRP for the Site, responded with a technical justification for not performing additional groundwater monitoring, based largely on the limited potential for groundwater migration based on the influence of the New Street Pump Station. A meeting held in May 2011 between 3M and MassDEP focused on the potential future risk to indoor air posed by a residential use scenario. During this meeting, the possibility of recording an AUL on the property, and/or the installation of sub-slab depressurization system, was discussed. As of the date of this URAM plan, the current status of work on Site was not available and an AUL has not been recorded

Based on available records, the most heavily impacted soil on this Site has been removed, and impacted groundwater has been identified on the northeast portion of the property, only. Based on the Site limits as presented in publicly available reports, conditions related to RTN 3-15863 are unlikely to impact Concord Avenue Project activities. However, data was collected from a limited number of points on the property, and CVOCs, have been detected on several neighboring properties, indicating that CVOCs may be present in the Concord Avenue Project area along Bay State Road.

CVOC-impacted soil and groundwater may also be subject to disposal as RCRA F-listed hazardous waste, depending on the concentrations encountered. Soil removed from the lateral limits of excavation with concentrations of CVOCs above S-1/GW-1 MCP risk characterization standards would be classified as a listed RCRA Waste. Soils in this category, once removed from the lateral limits of excavation may not be replaced in the excavation.

RTN 3-19802, 22-48 New Street is located northwest of 23 Bay State Road. CVOCs were detected in groundwater at the property in March, 2000. Site investigations conducted by others determined that contaminant concentrations on Site did not pose an Imminent Hazard (IH) or require Immediate Response Actions (IRA). A Downgradient Property Status (DPS) was filed for the Site, attributing the contamination to the 23 Bay State Road property or “other upgradient properties.” While there is no indication that CVOCs from the 22-48 New Street property have migrated into the Concord Avenue Project area, the CVOCs detected at the property may be indicative of broader conditions in the Bay State Road area.

RTN 3-13307, 57 Bay State Road is the location of VC identified in groundwater. The finding was reported to MassDEP in 1996. A DPS opinion was submitted in 1996, attributing the presence of CVOCs to leachate from the Cambridge Landfill. This conclusion was based on a 1995 monitoring report by Camp Dresser McKee that identified CVOCs in groundwater in the landfill. Compounds detected on the property included VC (up to 790 µg/L) and 1,1-dichloroethene (up to 60 µg/L), as well as TCE, PCE and several other CVOCs below applicable standards. While there is no indication that CVOCs from 57 Bay State Road property have migrated into the Concord Avenue Project corridor, the CVOCs detected at the property may indicate broader conditions in the Bay State Road area.

RTN 3-10176, 3-12068, 247 Garden Street, is the location of the Briston Arms Apartments. RTN 3-10176 was assigned in 1993, following the detection of combustible gas at greater than 10% of the lower explosive limit (LEL) in two water shutoff pipes. The Notice of Responsibility issued by MassDEP required Briston Arms to conduct a combustible gas sampling program. Briston Arms initiated the gas monitoring program, and installed a passive sewer ventilation system in 1994. In January, 1995, two monitoring points were found to contain combustible gas over 10% of the LEL. The manholes were vented and subsequent sampling did not identify potentially explosive levels of combustible gas. The source of the methane was determined to be the former Cambridge Landfill, now Danehy Park. The Site is currently regulated under Administrative Consent Order ACO-NE-94-9003-34. Methane from the landfill is not expected to impact Concord Avenue Project soil management or excavation activities, but must be considered as a potential hazard.

RTN 3-13583, 450 Concord Avenue (The Armory) is the location of PAHs and lead detected in soil during an underground storage tank (UST) removal conducted in 1995, and reported to MassDEP in 1996. During removal, the USTs were observed to be in good condition with no evidence of leakage. The PAHs and lead detected were attributed to coal, ash, cinders, and

other fill material and were determined to be unrelated to the UST. Groundwater was shown to not be impacted above applicable standards. This Site is the location of a former clay pit, which operated until the early 1900s and which was later used as a landfill by the City of Cambridge until between 1938 and 1952. The Armory was constructed in 1960 over the former clay pit and landfill. A Class B-2 RAO was filed for the Site in November, 2008, indicating that no remediation was performed, but that a condition of No Significant Risk exists under the conditions of an AUL recorded for the property. The AUL applies to the entire property at 450 Concord Avenue, and includes soil from the surface to up to 20 feet below grade. The AUL requires the use of a soil management plan and health and safety plan for any excavation activities on the property except for emergency utility repairs. It is possible that Site fill may extend into the ROW and soil management would be addressed under this URAM.

RTN 3-2382, 480 Fresh Pond Parkway, is the location of a release of gasoline discovered during a UST replacement conducted in 1988. At the time of the UST removal, 1,550 cubic yards of soil were excavated and removed from the Site, and soil and groundwater investigations were performed. Benzene, toluene, ethylbenzene and xylenes (BTEX) were detected in groundwater. Non-aqueous phase liquid (NAPL) was detected downgradient of the UST location. A NAPL recovery system was installed in 1990 but is no longer in use. During monitoring activities conducted in 1994 and 1996, NAPL was not detected on Site, but BTEX and methyl tertiary butyl ether (MTBE) were still detected in several wells. In 2001, work in Sozio Circle was performed as a URAM by the City of Cambridge when petroleum contaminated soils were encountered in utility trenches. A Class C-2 RAO, indicating that a Temporary Solution was achieved for the Site, but that a condition of No Significant Risk had not yet been achieved, was filed in November 2012. Recent sampling results have indicated that petroleum compounds persist in Sozio Circle, possibly from a source other than RTN 3-2382. Petroleum contaminated soil or groundwater may be encountered during Concord Avenue Project work at or near Sozio circle.

RTN 3-15001, 169 Chilton Street is the location of a release of 70 gallons of No. 2 fuel oil at a residence. An IRA was implemented in 1997 and A-2 RAO was submitted to MassDEP in the same year, indicating that a condition of No Significant Risk was present. No further information was readily available for this release and it is considered unlikely to impact the Concord Avenue Project based on the low volume of released oil.

RTN 3-10535, 343 Concord Avenue, is listed as the location of a release of petroleum products from a UST, which was removed from the Site in 1993. A subsurface investigation was

performed in May 1995, and two contaminants (1,2,4-Trimethylbenzene, in soil and 1,2-dichloroethane, in groundwater) were reported above applicable standards. No further actions were taken until February 1997, when the Site was re-sampled and the previously reported contaminants were not detected. This was confirmed with a groundwater sampling event in March, 1997, and a Class A-1 RAO was submitted, indicating that the Site poses No Significant Risk to human health or the environment, and that no remediation was performed. Based on the lack of documented impact to the Site at present, it is considered unlikely to impact the Concord Avenue Project area.

RTN 3-20736, RTN 3-20951, RTN 3-21690 and RTN 3-14329, 297 Concord Avenue, at the corner of Concord Ave and Walden Street, is the location of a US Petroleum branded gasoline service station currently in Phase V (ROS). RTN 3-20736 was assigned in 2001 following a photoionization detector (PID) reading of greater than 100 parts per million (ppm) during a UST removal, which triggered a 72-hour reporting condition and IRA. A Phase I Initial Site Investigation, which recommended the installation of a soil vapor extraction (SVE) system, was submitted in May 2002. A Notice of Non Compliance was issued by MassDEP for the Site in March, 2005, requiring the submittal of a Phase II, Phase III and Phase IV report. In 2006, MassDEP audited the Site and found it to be in violation of MCP requirements. Phase II and Phase III reports were submitted to MassDEP in May, 2006. The Phase III report proposed ongoing operation of the existing SVE system and limited excavation as remedial strategies. A Phase IV Remedy Implementation Plan (RIP) was submitted to MassDEP in March, 2009. Tier II extensions were submitted from 2007 to 2011. An IRA completion report, documenting operation of the SVE system, was submitted in August 2010. A Phase IV Final Inspection Report and Completion Statement, documenting the excavation of 256 tons of contaminated soil, was submitted in September, 2011. ROS status reports, documenting the progress of monitored natural attenuation are now submitted on a semi-annual basis, the most recent dated March 12, 2014.

As of the last ROS report submitted to MassDEP, VPH has historically been above standards in one Site monitoring well. The documented groundwater flow direction is to the north, away from the Concord Avenue Project area, but due to the variability in groundwater flow documented in nearby Sites, petroleum hydrocarbons from the Disposal Site may impact the project area within Walden Street or Concord Avenue.

RTN 3-20951 was assigned in June 2001 due to a detection of silver above RCGW-2 in a sample collected from a fractionation tank used for dewatering during UST removal activities. RTN 3-20951 was linked to RTN 3-20736 in May, 2002.

RTN 3-21690 was assigned in April, 2002 due to semivolatile organic compounds detected in soil above reportable concentrations during the advancement of soil borings. RTN 3-21690 was linked to RTN 3-20736 in May 2002.

RTN 3-14329, was assigned in October, 1996 due to the release of approximately 48 gallons of gasoline from a tanker truck during UST filling. Gasoline was released to the roadway in front of 297 Concord Ave and traveled up Walden Street to a catch basin at 344-346 Walden Street. Response actions included deployment of absorbent materials and pumping and cleaning the catch basin. A Class A-1 RAO was submitted on December 20, 1996, indicating that the Site had been restored to background conditions and a condition of No Significant Risk exists.

RTN 3-3847, 299 Concord Ave, is the location of a former gasoline station. Two USTs were located on the property near Concord Ave from 1924 to the early 1960s. The USTs were reportedly removed but no record of the removal was readily available. The Site is currently used as an office. Environmental investigations were initiated in 1991 as part of a voluntary environmental site investigation prior to property sale. This investigation indicated that petroleum impact, constituting a release, was present, but that the Site would not likely require further action. Additional soil samples were collected in 1997, and no constituents were detected above S-1 soil standards. An A-2 RAO was submitted in August 2007. Due to the limited impact associated with this Site, it is unlikely to affect Concord Avenue Project area soil or groundwater.

RTN 3-2177, 191/199 Concord Avenue, at the intersection of Huron Avenue, is the location of a release of petroleum to the subsurface from one or more USTs. The RTN was initially assigned in 1989 in response to a complaint of gasoline odors on nearby properties. An initial investigation in 1990 did not discover petroleum impact to soil or groundwater, but during the removal of three gasoline USTs, one heating oil tank and one waste oil UST in 1991, 60 cubic yards of contaminated soil were removed from the property. Additional impacted soil was documented to remain on the Site. Phase I, II, III, and IV reports were submitted between 1998 and 2009, documenting additional subsurface exploration work and the excavation of soil from the former UST area along Huron Avenue. A Class A-3 RAO with a Method 3 Risk Assessment, indicating that No Significant Risk is associated with the Site, dependent upon the conditions of

an AUL, was filed in 2010. The AUL includes the entire property. According to the RAO, petroleum hydrocarbons and lead remain in soil above standards on the Site from the surface to 15 feet below grade. Groundwater is impacted, but at concentrations below GW-2/GW-3 standards. The Site currently operates as a gasoline service station and automotive repair facility. This Site has limited potential to impact soil or groundwater in the Concord Avenue area near its intersection with Huron Avenue.

5.3 PRE-CONSTRUCTION SUBSURFACE INVESTIGATION

5.3.1 Subsurface Investigation

Forty-nine (49) soil borings were advanced by Kleinfelder within the Concord Avenue Project area in December 2012 and January 2013. Locations of the borings are shown in Figure 1. All borings were advanced within the limits of the ROW. Thirteen (13) soil samples were collected for laboratory chemical analysis. The locations of the environmental samples were based on the results of the historical and database research as well as field observations. Petroleum odors and/or elevated soil vapor concentrations, as measured by the MassDEP jar headspace method, were noted in several borings as summarized below.

At each sampled boring, one composite and one grab soil sample were collected from the fill layer and submitted to Con-Test Labs of East Longmeadow, MA (Con-Test) for laboratory chemical analysis. Each sample was analyzed for waste disposal characteristics: total petroleum hydrocarbons (TPH); RCRA 8 metals; volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (U.S. EPA) Method 8260; semi-volatile organic compounds (SVOCs) by U.S. EPA Method 8270; polychlorinated biphenyls (PCBs) by U.S. EPA Method 8082, reactivity, and conductivity. In boring B-335, a discrete sample was also collected at 9-10 feet below grade (fbg), where odors were detected. This sample was submitted to Con-Test for analysis of VOCs only. Analytical results are summarized in Table 1 and analytical data reports are provided in Appendix B.

Twenty-five (25) groundwater monitoring wells were installed in selected borings. On January 29, 2013, monitoring wells B-307, B-335, B-333 and B-350 were sampled using low-flow methodology. Monitoring well B-305 was not sampled on January 29, 2013 because it went dry during development. Groundwater samples were submitted to Con-Test for analysis of VOCs via 8260 and dissolved RCRA 8 metals. Metals samples were field filtered using a 0.45 micron filter. On March 6, 2013 monitoring wells B-313, B-337, and B-305 were sampled using low-

flow methodology. Groundwater samples were submitted to Con-Test for VOC analysis. Additionally, a groundwater sample from B-305 was submitted for analysis of VPH and EPH. On March 13, 2013 monitoring wells B-329, B-331, B-333 and B-349 were sampled using low-flow methodology. Groundwater samples were submitted to Con-Test for analysis of VOCs. Analytical results are summarized in Table 2 and analytical data reports are provided in Appendix B.

5.3.2 Soil Analytical Results

Analytical results for soil samples are shown on Table 1. Soil sample locations are provided on Figure 1. Soil analytical results are compared with MCP RCS-1 Reportable Concentrations (RC), which apply to all soils at or within 500 feet of residential areas, schools, playgrounds, recreational areas, and parks. Metals and PAH results were also compared to background concentrations for natural soils, as published in the MassDEP technical update “Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil” (2002).

Metals. In boring B-324 on Fayerweather Street, arsenic was detected at 22 mg/kg, above the RCS-1 standard of 20 mg/kg. Lead and barium at B-324 were both detected above natural soil background levels, but below RCS-1. Soil in the sample interval (0.5 – 1.9 fbg) was described as fill with coal and ash. Arsenic and other metals detected at this location are likely the result of historic fill.

In borings B-205, B-248, B-313 and B-340, total chromium was detected above RCS-1, at 41 mg/kg, 39 mg/kg, 37 mg/kg and 34 mg/kg, respectively. The RCS-1 standard for total chromium, 30 mg/kg, assumes the presence of hexavalent chromium. Soil from B-313 was analyzed for hexavalent chromium, and no hexavalent chromium was detected. There are no historical sources of hexavalent chrome identified in the Concord Avenue Project area. Therefore, it is likely that chromium in all samples is present in the trivalent rather than hexavalent form. The RCS-1 criteria for trivalent chromium is 1000 mg/kg, therefore the Reportable Concentration is not exceeded. The chromium concentration detected is consistent with background concentrations for glaciomarine clays. Other metal concentrations in the four samples are also consistent with natural background soils.

The only other metal detected above natural soil background concentrations was barium, detected in borings B-204, B-205, B-248, B-317, B-324, and B-340. Kleinfelder notes that barium above MassDEP published background concentrations is frequently detected in soil in

this area of Cambridge, and likely represents a local background condition. No other metals were detected above natural soil background levels in any sample analyzed.

Total Petroleum Hydrocarbons. TPH was detected above the RCS-1 RC of 1,000 mg/kg at B-205 at the intersection of Alpine Street and Vassal Lane, B-315 on Concord Avenue at the Sozio Rotary, and B-336 on Fern Street, at 1000 mg/kg, 1,100 mg/kg and 1,300 mg/kg, respectively. For the borings advanced for the Concord Avenue Project, as part of the TPH fingerprint analysis, results were compared with a library of petroleum standards. For borings B-315 and B-336, the TPH results were reported to match the standard for asphalt. This indicates that the source of TPH detected may be asphalt fragments in the road base or fill material, and that the soil matrix may not be petroleum impacted. Ash and cinders were identified in borings B-313 and B-347, and may be an additional source of TPH. For boring B-305, at the Concord-Walden intersection, the TPH detected matched the standard for No. 2 fuel oil. This indicates petroleum impact at this location, consistent with the historical releases in the area. For boring B-324, the TPH results were not an exact match for any available standard. Fill material, including ash, was identified in B-324 and is the likely source of TPH.

VOCs. No VOCs were detected above RCS-1 in any soil sample analyzed. PCE was detected above laboratory reporting limits but below RCS-1, in sample B-315, which is located near Sozio Circle in Concord Avenue.

SVOCs. In boring B-305, located at the intersection of Walden Street and Concord Avenue, a sample was collected from 1 -7 fbg. A petroleum odor was noted in the sample and VOCs up to 137 ppm were detected during PID screening. 2-methylnaphthalene was detected above RCS-1 in the sample, at 0.73 mg/kg, and several other SVOCs were detected below RCS-1 but above laboratory reporting limits. Based on these results of the sample and the historical releases of petroleum associated with RTN 3-20736, as discussed above, soil at this location should be considered petroleum impacted.

In boring B-205, located at the intersection of Alpine Street and Vassal Lane, multiple PAHs were detected above RCS-1 limits and above the background level established for soil containing coal or wood ash. In boring B-324, benzo(a)pyrene was detected at 2.4 mg/kg, above RCS-1 but below the background level established for soil containing coal or wood ash. Ash was identified in the sample from B-324 and is the likely source of the benzo(a)pyrene.

No additional PAHs were detected above RCS-1 in any soil sample analyzed.

No PCBs were detected in any soil sample analyzed.

For samples from borings B-335 and B-338, flashpoint was reported at 110 degrees Fahrenheit. While there is no RCS-1 standard for flashpoint, soil typically has a flashpoint of greater than 200 degrees Fahrenheit and this lower result is notable. The reason for this low flashpoint is not known, but may be due to peat and/or other organic material in the samples.

5.3.3 Groundwater Analytical Results

Analytical results for groundwater are shown in Table 2 and sample locations are provided in Figure 2. Results are compared with MCP RCGW-1 Reportable Concentrations consisting of drinking water standards that are not applicable in the project area but relevant for disposal of dewatering discharge, and RCGW-2 Reportable Concentrations, applicable to all areas..

VOCs. VOCs were detected in eight of the eleven groundwater samples analyzed. In B-335, located in Birch Street, 1,1-dichloroethane (1,1-DCA), 1,1 dichloroethene, cis-1,2-dichloroethene (cis-1,2- DCE), trans-1,2-dichloroethene (trans-1,2-DCE), PCE, TCE, and VC were detected above RCGW-2 criteria. These same compounds as well as 1,1,1 trichloroethane (TCA), were detected at concentrations above RCGW-1. Additional VOCs were detected below RCGW-1 and RCGW-2 but above laboratory reporting limits in B-335.

In monitoring well B-333, located near the intersection of Birch Street and Field Street, cis-1,2-DCE, TCE and VC were detected above RCGW-1 criteria and VC was detected above RCGW-2 criteria in the sample collected in January 2013. Other VOCs were detected in groundwater above laboratory reporting limits but below RCGW-1 at B-333. B-333 was resampled in March 2013. Cis-1,2-DCE and TCE were detected at concentrations below RCGW-1 in March 2013 and below the concentrations measured in January 2013. Other previously-identified CVOCs were not detected in groundwater at B-333 in March 2013.

In monitoring well B-350, located on Garden Street, and well B-307, located at the corner of Fayerweather Street and Saville Street, 1,1-DCE, cis-1,2-DCE, toluene, and 111-TCA were detected below applicable standards. In wells B-313 and B-331, which are located near CVOC sources, only trace concentrations of 1,1-DCA were detected.

Petroleum-related VOCs were identified in well B-305. Benzene was detected above RCGW-1 and additional VOCs were detected above laboratory reporting limits. Neither CVOCs or petroleum-related VOCs were detected in B-329, B-337, or B-349.

Findings of VOCs are consistent with the reported releases of CVOCs in the northwest portion of the Concord Avenue Project area and petroleum releases at the corner of Walden and Concord Streets.

Metals. No metals were detected above RCGW-1 in any groundwater samples analyzed.

VPH and EPH. Only the groundwater sample from collected from B-305, located in proximity to a gasoline and oil release was analyzed for VPH and EPH. Both analyses indicated that C11-C22 aromatics, C5-C8 aliphatics, C9-C12 aromatics, naphthalene, toluene, xylenes and methyl tert-butyl ether (MBTE) were detected at concentrations below RCGW-1 criteria. Benzene, reported by both VOCs and VPH methods, was present at just below RCGW-1 criteria.

6. OBJECTIVES

The objectives of this URAM are to:

- Conduct the utility installations in a manner that will be protective of work and public health;
- Manage OHM-impacted soils excavated to allow for utility construction and installation;
- Manage surplus soils in accordance with MassDEP and other applicable regulations and policies; and
- Manage OHM-impacted groundwater encountered during excavation, if required.

7. URAM PLAN

This URAM Plan has been prepared in accordance with 310 CMR 40.0460 to serve as written notification to MassDEP that the City of Cambridge, Massachusetts intends to implement a URAM. Work at the site will be performed in accordance with all applicable federal, state, and local regulations, including, but not limited to the MCP, local ordinances, and Occupational Safety and Health Administration regulations (including, but not limited to, 29 CFR 1910.1000,

29 CFR 1926, and CFR 1910.120), and other applicable state and federal regulations regarding health and safety.

7.1 Soil Management

In general, soil from the Concord Avenue Project area will be reused on site in the area from which it came to the extent that it is geotechnically suitable and consistent with Concord Avenue Project plans. Soil which cannot be reused on the Concord Avenue Project will be transported to PGS's storage yard on Lake Street in Belmont, Massachusetts, or to another secured location for stockpiling. The Lake Street yard is located a minimum of 200 feet from the nearest building or parking area and is bounded by Lake Street, Route 2, and the access road connecting Route 2 and Lake Street. The yard is fenced, and surrounded by undeveloped land with mature trees and shrubs, limiting access to all but vehicular traffic and minimizing the potential for human exposure to dust. Soil will be stored on either polyethylene sheeting or on paved surfaces. Soil stockpiles will be segregated and identified by street of origin and separated by jersey barriers. Stockpiles will be sampled at a minimum frequency of one sample per 500 cubic yards to determine the appropriate disposal or reuse location.

Soil which exhibits visual or olfactory evidence of contamination, or soil which is shown to contain contaminants at concentrations greater than RCS-1, will be segregated and securely covered until removed from the staging area. Soil will also be covered if visible dust is being generated. Contaminated soil will be transported using a Massachusetts Bill of Lading (BOL) under RTN 3-32044.

The CVOC-impacted soil associated with the MCP-listed sites at 445 Concord Avenue and at 23 Bay State Road may also be subject to disposal as RCRA F-listed hazardous waste, depending on the concentrations encountered. Soil removed from the lateral limits of excavation with concentrations of solvents listed at 310 CMR 30.131, such as TCE or PCE, above Method 1 S-1/GW-1 MCP risk characterization standards would be classified as a listed RCRA Waste. Soils in this category, once removed from the lateral limits of excavation may not be replaced in the excavation. Soil investigations to date indicate that the greatest contamination is found below the water table and the clay layer underlying the fill materials where excavation will occur. We anticipate that prior to excavation, precharacterization sampling and analysis will be conducted by the Contractor to delineate those areas requiring management as RCRA F-listed hazardous wastes.

RCRA F-listed waste soils will be stored for no more than 90 days and will be transported under a RCRA Hazardous Waste Manifest to a RCRA Waste Disposal Facility.

Based on the history of uncontrolled filling of clay pits in the area, ash or debris deposits may be encountered that have the potential for having the RCRA toxicity characteristic for lead or other metals. If such materials are encountered, characterization samples will be collected prior to excavation to allow for in situ stabilization within the trench excavation. Soil will not be removed from the trench alignment until it has been tested and verified that the soil is no longer characteristically hazardous for lead. Representative soil samples will be collected for laboratory chemical analysis for Toxicity Characteristic Leaching Procedure (TCLP) following application and mixing of the stabilization product. The exact stabilization chemical and method will be determined based on treatability testing of the soil. Treatment and sampling will be repeated, if needed, until sample analyses indicate that the soil is no longer RCRA characteristic waste. Soil that exhibits the characteristics of a RCRA waste and which is a listed RCRA waste, and that cannot be reused in the area of excavation would not be stabilized prior to disposal as the treatment would not remove the listed characteristic.

Treated soils will then be removed from the trench for landfill disposal. Soil will be reused as cover material at in-state lined landfills to the extent possible. Soil that exceeds the in-state limit for cover material at lined landfills will be transported to an out of state landfill for disposal.

7.2 Groundwater Management

In general, groundwater will be managed on site by recharge into the excavation. A settling or fractionation tank may be used to hold collected groundwater for slow recharge at its approximate point of origin if the infiltration rate does not allow direct infiltration. Groundwater will also be treated and released in accordance with an MWRA discharge permit, in which case a groundwater sample will be collected and analyzed prior to permit application.

CVOC-impacted groundwater associated with the MCP-listed sites at 445 Concord Avenue and at 23 Bay State Road may also be subject to disposal as RCRA F-listed hazardous waste, depending on the concentrations encountered. Groundwater extracted from the excavation with concentrations of CVOCs above Method 1 GW-1 MCP risk characterization standards would be classified as a listed RCRA Waste. Groundwater must be treated prior to infiltration or discharge to the MWRA system. Infiltration must be performed within the boundaries of the disposal site.

8. HEALTH AND SAFETY PLAN

The Contractor has prepared a Health and Safety Plan (HASP), and dust, vapor, and odor control plan documenting methods to protect workers and the public during construction activities at the site. This section of the URAM Plan outlines Contractor general requirements. All on-site personnel will be made aware of the potential hazards.

An air monitoring program will be implemented to ensure the protection of public health and the environment from the potential generation of vapors and dust during soil management associated with the MCP-listed sites at 445 Concord Avenue and at 23 Bay State Road. Air monitoring will be performed by the Contractor during all soil handling operations in these areas.

Particular attention to air quality will be made in the work area during earthwork activities to ensure that contaminants do not escape to the atmosphere at concentrations that could adversely affect off-site populations.

Air monitoring will be conducted continuously during excavation or when trenches/excavations are uncovered. Air monitoring will be conducted within the breathing zone and at the limits of the exclusion zone.

During construction, real-time dust monitoring will be conducted during any soil/fill handling activities. The monitoring will consist of total dust testing using MIE, Inc. Miniram PDM-3 Dust Monitors, or like instruments. The total dust criteria at the site will conform to the requirements of the HASP. Should fugitive dust quantities exceed the upgrade level, the Contractor will perform additional measures to reduce the total dust concentrations.

Water will be used to control the potential for airborne dust. The soil will be adequately wetted to control dust generation during excavation and before being either backfilled into the excavation(s) or loaded into roll-off containers or trucks. The containers/trucks will be covered and decontaminated prior to leaving the site. Nuisance odors and/or elevated PID readings will be addressed utilizing foam vapor suppression.

At the conclusion of each working day stockpiled soil will be securely covered with polyethylene sheeting; open trenches will be securely covered with steel sheeting to minimize the potential for off-hours release of vapors and/or disturbance of soils.

9. IMPLEMENTATION SCHEDULE & REPORTING

Excavation in the Concord Avenue Project is anticipated to be completed by September 2016.

The first URAM status report will be submitted within 120 days of the initiation of URAM activities. Status reports will be submitted every six months thereafter until a URAM completion report is submitted.

A URAM Completion Report will be prepared and submitted to MassDEP within 60 days of completion of URAM activities. The report will document activities at the site and will include:

- A succinct summary of information and data pertaining to the discovery, location and evaluation of encountered contamination, and of all response actions undertaken;
- Documentation on the management of Remediation Waste, Remedial Additives and/or Remedial Wastewater managed at the site; and
- Details on any proposed or ongoing active or passive remedial systems that will remain in place at the site.

10. PERMITS

The Concord Avenue Project work is being performed under City of Cambridge Excavation Permits. The Contractor is preparing a Stormwater Pollution Prevention Plan and will apply for a National Pollutant Discharge Elimination System Construction General Permit for stormwater discharges and for a MWRA permit for groundwater discharges.

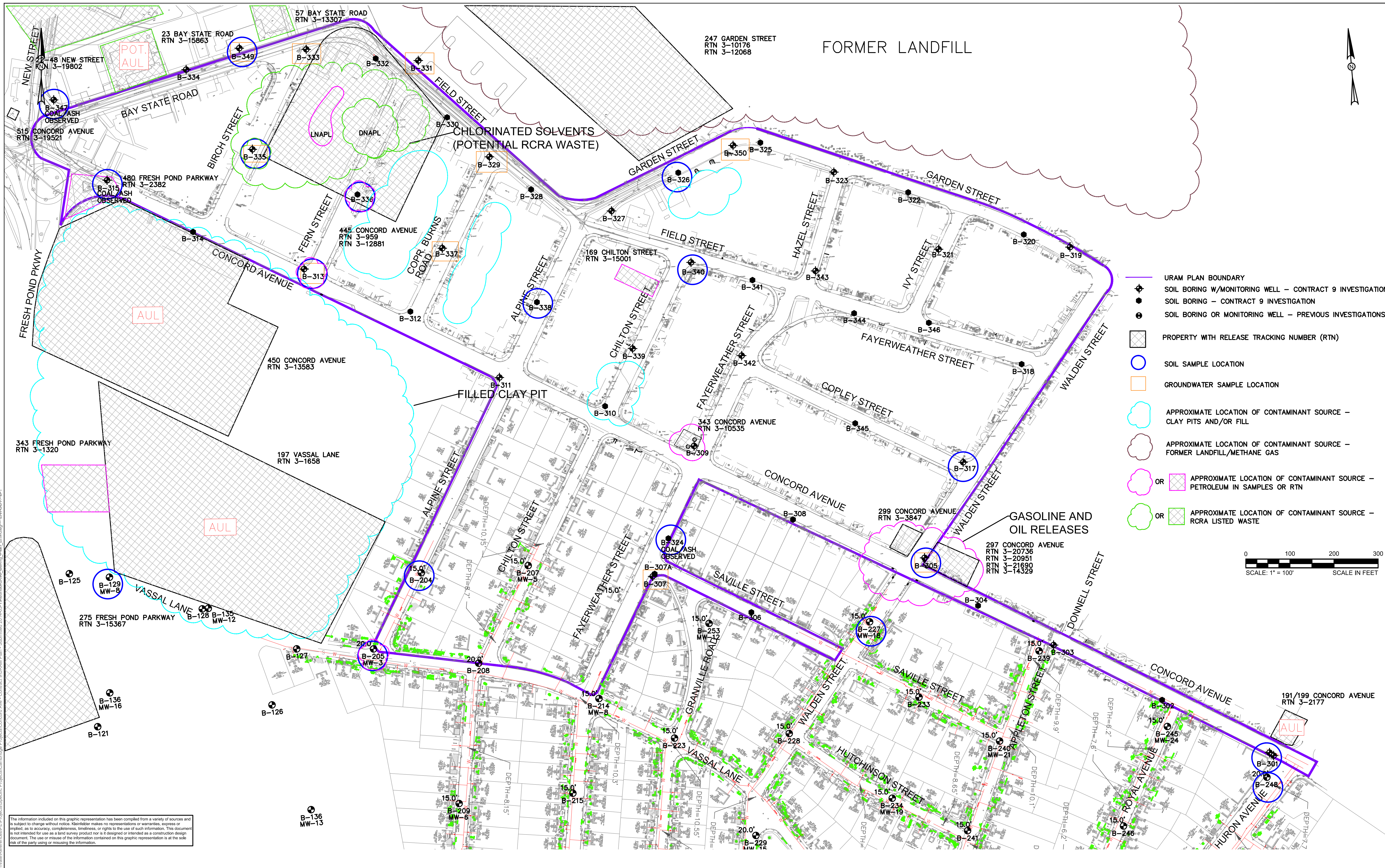
11. PUBLIC NOTIFICATION

Utility workers entering the trenches and/or excavations within the areas associated with 445 Concord Avenue and 23 Bay State Road may use Level B or C personal protective equipment. In accordance with the requirements of 310 CMR 40.1403, at least three days prior to start of work in these areas, notification shall be provided to the Board of Health and the Chief Municipal Officer of the intended use of respirators.

12. LIMITATIONS

This work was performed in a manner consistent with the level of care and skill of environmental practice generally accepted in the State of Massachusetts and ordinarily exercised by other members of the profession under similar conditions, at the date these services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

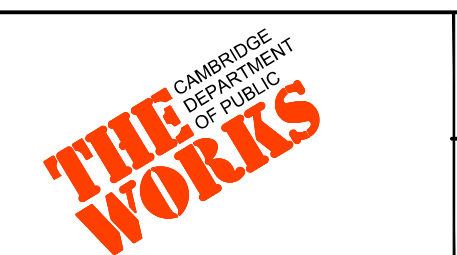
Figure



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PROJECT NO.	2012256.02-A
DATE:	MARCH 14, 2013
REVISED:	MARCH 14, 2014
DRAWN BY:	KLJ/RLP
CHECKED BY:	BJM/CMLZ



Client
CITY OF CAMBRIDGE, MASSACHUSETTS

Project
CONCORD AVE. SEWER SEPARATION PROJECT
Contract No. 9

URAM BOUNDARY PLAN
INCLUDING BORING AND MCP
LOCATION INFORMATION

FIGURE
1

CAD FILE: L:\URP\plan\uram\URAM\URAM.dwg; Project: Concord Ave. - Contract 9\URAM Plan - Submitted 2014.03.14; P:\DATA\2014\2014_03_14_URAM.dwg; Scale: 1"=100'

Tables

Table 1
Analytical Results - Soil
Alewife Brook Sewer Separation
Concord Avenue Neighborhood Improvements
Cambridge, MA

	RCS-1	Natural Soil Background	2011140.01A/B-204/0.5-8.0ft	2011140.01A/B-205/0.5-9.0ft	B-227	2011140.01A/B-248/0.5-4.0ft	B301-0.5-14.5	B305 - 1-7	B313-0.5-8.0	B315-0.5-4.5
Street Location of Sample			Alpine Street north of intersection with Vassal	Alpine and Vassal intersection	Walden St north of Saville	Huron south of Concord	Huron and Concord intersection	Walden and Concord intersection	Concord east of Sozio Rotary	Fern and Concord intersection
Sampling Date			7/20/2012	7/20/2012	7/11/2012	7/23/2012	1/10/2013	1/28/2013	1/4/2013	1/4/2013
Sample Depth			0.5-8	0.5 - 9	0.5-10	0.5-4	0.5-14.5	1-7	0.5-8	0.5-4.5
Solids (%)	~	~	89.6	86.7	93.5	85.2	90.9	91.1	88.3	90.7
Oxidation/Reduction Potential (mV)	~	~	NT	NT	NT	NT	NT	NT	75	NT
pH	~	~	8.7	8	NT	9.1	NT	NT	7.6	NT
Specific Conductance (µmhos/cm)	~	~	15	45	NT	19	20	11	10	23
Reactive Cyanide (mg/kg)	~	~	ND (4.0)	ND (3.9)	NT	ND (3.9)	ND (3.9)	ND (4.0)	ND (3.9)	ND (3.9)
Reactive Sulfide (mg/kg)	~	~	ND (20)	ND (20)	NT	ND (20)	ND (19)	ND (20)	ND (20)	ND (20)
Flashpoint (°F)	~	~	> 212 °F	> 212 °F	NT	> 212 °F	> 212 °F	>200	> 212 °F	> 212 °F
Metals (mg/kg)										
Arsenic	20	20	ND (2.8)	ND (2.8)	ND (2.6)	ND (2.8)	ND (2.7)	ND (2.5)	3.1	ND (2.6)
Barium	1000	50	80	110	35	88	22	26	31	45
Cadmium	2	2	ND (0.28)	0.37	ND (0.26)	ND (0.29)	ND (0.27)	ND (0.25)	ND (0.28)	ND (0.26)
Chromium	30	30	25	41	13	39	10	11	37	23
Lead	300	100	24	22	7.8	9.3	4.1	4.2	15	13
Selenium	400	0.5	ND (5.6)	ND (5.7)	ND (5.1)	ND (5.8)	ND (5.4)	ND (5.1)	ND (5.6)	ND (5.3)
Silver	100	0.6	ND (0.56)	0.61	ND (0.51)	ND (0.58)	ND (0.54)	ND (0.51)	ND (0.56)	ND (0.53)
Mercury	20	0.3	0.044	0.089	ND (0.027)	ND (0.029)	ND (0.027)	ND (0.027)	ND (0.028)	0.050
Chromium +6	30	30	NT	NT	NT	NT	NT	NT	ND (0.34)	NT
Total Petroleum Hydrocarbons (TPH) (mg/kg)										
Asphalt	1000	~	NT	NT	NT	NT	57	ND(18)	870	1100
No. 2 Fuel Oil	1000	~	NT	NT	NT	NT	ND (10)	430	ND (470)	ND (450)
Unidentified / Not Specified	1000	~	130	1000	59	150	ND (10)	ND(18)	ND (470)	ND (450)
Polychlorinated Biphenyls (PCBs) (mg/kg)										
Total PCBs	2	~	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Volatile Organic Compounds (VOCs) (mg/kg)										
Acetone	6	~	ND (3.0)	ND (3.5)	ND (2.4)	ND (2.5)	ND (0.077)	ND (0.10)	ND (0.086)	ND (0.10)
Tetrachloroethylene	1	~	ND (0.060)	ND (0.070)	ND (0.055)	ND (0.056)	ND (0.0015)	ND (0.0020)	ND (0.0017)	0.0069
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)										
Anthracene	1000	1	0.46	8.4	ND (0.36)	ND (0.20)	ND (0.19)	ND (0.18)	0.25	ND (0.19)
Benzo(a)anthracene	7	2	1.7	12	1.1	ND (0.020)	ND (0.19)	ND (0.18)	1.1	0.27
Benzo(a)pyrene	2	2	1.5	10	1.0	ND (0.020)	ND (0.19)	ND (0.18)	0.98	0.31
Benzo(b)fluoranthene	7	2	1.7	11	1.1	ND (0.020)	ND (0.19)	ND (0.18)	1.1	0.40
Benzo(g,h,i)perylene	1000	1	1.1	6.5	0.64	ND (0.020)	ND (0.19)	ND (0.18)	0.53	ND (0.19)
Benzo(k)fluoranthene	70	1	0.63	4.8	ND (0.36)	ND (0.020)	ND (0.19)	ND (0.18)	0.41	ND (0.19)
Bis(2-Ethylhexyl)Phthalate	200	~	ND (0.38)	ND (7.8)	ND (0.38)	ND (7.4)	ND (0.37)	ND (0.37)	ND (0.38)	0.40
Chrysene	70	2	1.6	11	0.92	ND (0.020)	ND (0.19)	ND (0.18)	1.0	0.29
Dibenzo(a,h)anthracene	0.7	0.5	0.28	ND (3.9) *	ND (0.36)	ND (0.020)	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.19)
Dibenzofuran	100	~	ND (0.38)	ND (7.8)	ND (0.72)	ND (0.020)	ND (0.37)	ND (0.37)	ND (0.38)	ND (0.37)
Fluoranthene	1000	4	3.2	27	1.9	ND (0.020)	ND (0.19)	ND (0.18)	1.5	0.39
Fluorene	1000	1	ND (0.19)	4.8	ND (0.36)	ND (0.020)	ND (0.19)	ND (0.18)	0.22	ND (0.19)
Indeno(1,2,3-cd)pyrene	7	1	1.1	7.2	0.89	ND (0.020)	ND (0.19)	ND (0.18)	0.58	ND (0.19)
2-methylnaphthalene	0.7	0.5	ND (0.19)	ND (3.9) *	ND (0.36)	ND (0.020)	ND (0.19)	0.73	ND (0.19)	ND (0.19)
Naphthalene	4	0.5	ND (0.19)	ND (3.9)	ND (0.36)	ND (0.020)	ND (0.19)	0.46	ND (0.19)	ND (0.19)
Phenanthrene	10	3	1.3	24	1.0	ND (0.020)	ND (0.19)	0.49	0.66	0.24
Pyrene	1000	4	3.8	27	1.9	ND (0.020)	ND (0.19)	ND (0.18)	2.0	0.45

NOTES:

1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No Standard Promulgated
5. Bold = Compound detected above laboratory reporting limit
6. Shaded values exceed the MCP Reportable Concentrations (RCs).

Table 1
Analytical Results - Soil
Alewife Brook Sewer Separation
Concord Avenue Neighborhood Improvements
Cambridge, MA

	RCS-1	Natural Soil Background	B317 - 0.5-4.5	B324-0.5-1.9	B326-0-3	B335-0-11	B335-9-10	B336-0.5-8.0	B338-0-4	B340-0-2	B347-0.5-10.5	B349-0.5-8.5
Street Location of Sample			Walden and Copley intersection	Fayerweather south of intersection with Concord	Garden northeast of intersection with Field	Birch north of Concord intersection		Fern north of Concord intersection	Alpine north of Concord intersection	Chilton and Field intersection	Bay State Road northeast of Sozio Rotary	Bay State Road southwest of Field intersection
Sampling Date			1/25/2013	1/17/2013	12/20/2012	12/21/2012	12/21/2012	12/26/2012	12/20/2012	12/20/2012	1/4/2013	1/14/2013
Sample Depth			0.5-4.5	0.5-1.9	0-3	0-11	9-10	0.5-8	0-4	0-2	0.5-10.5	0.5-8.5
Solids (%)	~	~	82.9	71.1	93.3	86.6	88.6	89.4	90.4	84.6	80.7	80.7
Oxidation/Reduction Potential (mV)	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
pH	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Specific Conductance (µmhos/cm)	~	~	14	8.9	4.3	2.7	NT	5.3	11	4.3	17	20
Reactive Cyanide (mg/kg)	~	~	ND (4.0)	ND (3.9)	ND (3.9)	ND (4.0)	NT	ND (3.9)	ND (4.0)	ND (4.0)	ND (4.0)	ND (3.9)
Reactive Sulfide (mg/kg)	~	~	ND (20)	ND (20)	ND (20)	ND (20)	NT	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)
Flashpoint (°F)	~	~	>200	>200	> 212 °F	110	NT	> 212 °F	110	> 212 °F	> 212 °F	>200
Metals (mg/kg)												
Arsenic	20	20	ND (2.9)	22	3.0	3.3	NT	3.4	5.0	ND (2.7)	ND (2.9)	5.6
Barium	1000	50	89	120	25	29	NT	22	21	62	26	26
Cadmium	2	2	ND (0.29)	0.47	ND (0.27)	ND (0.28)	NT	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.27)
Chromium	30	30	29	11	15	14	NT	10	14	34	10	12
Lead	300	100	55	130	11	8.5	NT	2.9	4.4	11	23	4.9
Selenium	400	0.5	ND (5.8)	ND (6.5)	ND (5.4)	ND (5.7)	NT	ND (5.6)	ND (5.4)	ND (5.5)	ND (5.8)	ND (5.4)
Silver	100	0.6	ND (0.58)	ND (0.65)	ND (0.54)	ND (0.57)	NT	ND (0.56)	ND (0.54)	0.55	ND (0.58)	ND (0.54)
Mercury	20	0.3	0.046	0.12	ND (0.027)	ND (0.029)	NT	ND (0.027)	ND (0.027)	ND (0.029)	0.12	ND (0.54)
Chromium +6	30	30	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Petroleum Hydrocarbons (TPH) (mg/kg)												
Asphalt	1000	~	ND (10)	ND (23)	160	ND (10)	NT	1300	ND (10)	67	310	ND (10)
No. 2 Fuel Oil	1000	~	ND (10)	ND (23)	ND (89)	ND (10)	NT	ND (180)	ND (10)	ND (10)	ND (20)	ND (10)
Unidentified / Not Specified	1000	~	14	210	ND (89)	29	NT	ND (180)	26	ND (10)	ND (20)	13
Polychlorinated BiPhenyls (PCBs) (mg/kg)												
Total PCBs	2	~	ND (0.12)	ND (0.14)	ND (0.10)	ND (0.12)	NT	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)
Volatile Organic Compounds (VOCs) (mg/kg)												
Acetone	6	~	ND (0.14)	0.19	ND (0.19)	NT	ND (0.091)	ND (0.081)	ND (0.085)	ND (0.14)	ND (0.088)	0.13
Tetrachloroethylene	1	~	ND (0.0027)	ND (0.0035)	ND (0.0039)	NT	ND (0.0018)	ND (0.0016)	ND (0.0017)	ND (0.0028)	ND (0.0032)	ND (0.0026)
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)												
Anthracene	1000	1	ND (0.20)	1.8	ND (0.73)	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.19)
Benzo(a)anthracene	7	2	ND (0.20)	2.8	ND (0.73)	ND (0.20)	NT	ND (0.19)	0.38	ND (0.20)	0.56	ND (0.19)
Benzo(a)pyrene	2	2	ND (0.20)	2.4	ND (0.73)	ND (0.20)	NT	ND (0.19)	0.38	ND (0.20)	0.54	ND (0.19)
Benzo(b)fluoranthene	7	2	ND (0.20)	2.4	ND (0.73)	ND (0.20)	NT	ND (0.19)	0.46	ND (0.20)	0.68	ND (0.19)
Benzo(g,h,i)perylene	1000	1	ND (0.20)	1.3	ND (0.73)	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.19)
Benzo(k)fluoranthene	70	1	ND (0.20)	0.97	ND (0.73)	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.19)
Bis(2-Ethylhexyl)Phthalate	200	~	ND (0.41)	1.3	ND (1.5)	ND (0.39)	NT	0.72	ND (0.37)	1.8	ND (0.84)	ND (0.38)
Chrysene	70	2	ND (0.20)	2.5	ND (0.73)	ND (0.20)	NT	ND (0.19)	0.37	ND (0.20)	0.63	ND (0.19)
Dibenzo(a,h)anthracene	0.7	0.5	ND (0.20)		ND (0.73) *	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.42)
Dibenzofuran	100	~	ND (0.41)		ND (1.5)	ND (0.39)	NT	ND (0.38)	ND (0.37)	ND (0.40)	ND (0.84)	ND (0.84)
Fluoranthene	1000	4	ND (0.20)	4.6	ND (0.73)	ND (0.20)	NT	ND (0.19)	0.49	ND (0.20)	0.70	ND (0.19)
Fluorene	1000	1	ND (0.20)	0.59	ND (0.73)	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.19)
Indeno(1,2,3-cd)pyrene	7	1	ND (0.20)	1.5	ND (0.73)	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.19)
2-methylnaphthalene	0.7	0.5	ND (0.20)	ND (0.48)	ND (0.73) *	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.19)
Naphthalene	4	0.5	ND (0.20)	ND (0.48)	ND (0.73)	ND (0.20)	NT	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.42)	ND (0.19)
Phenanthrene	10	3	ND (0.20)	5.4	ND (0.73)	ND (0.20)	NT	ND (0.19)	0.29	ND (0.20)	0.53	ND (0.19)
Pyrene	1000	4	ND (0.20)	5.1	ND (0.73)	ND (0.20)	NT	ND (0.19)	0.41	ND (0.20)	1.0	ND (0.19)

NOTES:

1. An asterisk (*) following a detection limit indicates that the minimum laboratory
2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No Standard Promulgated
5. Bold = Compound detected above laboratory reporting limit
6. Shaded values exceed the MCP Reportable Concentrations (RCs).

Table 2
Analytical Results - Groundwater
Alewife Sewer Separation
Concord Avenue Neighborhood Improvements
Cambridge, MA

Parameter	Reportable Concentrations (RCs)		SAMPLING LOCATION				
	RCGW-1	RCGW-2	B-305	B-307	B-313	B-329	B-331
Sampling Date			3/6/2013	1/29/2013	3/6/2013	3/13/2013	3/13/2013
Metals (µg/L)							
Arsenic	0.01	0.9	NT	ND (0.010)	NT	NT	NT
Barium	2	50	NT	0.18	NT	NT	NT
Cadmium	0.004	0.004	NT	ND (0.0040)	NT	NT	NT
Chromium	0.1	0.3	NT	ND (0.010)	NT	NT	NT
Lead	0.01	0.01	NT	ND (0.010)	NT	NT	NT
Selenium	0.05	0.1	NT	ND (0.050)	NT	NT	NT
Silver	0.007	0.007	NT	ND (0.0050)	NT	NT	NT
Mercury	0.002	0.02	NT	ND (0.00010)	NT	NT	NT
Volatile Organic Compounds (VOCs) (µg/L)							
TERT-AMYL METHYL ETHER	~	~	2.8	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Benzene	5	2000	24	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
CHLOROETHANE	1000	10000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,1-Dichloroethane	70	1000	ND (1.0)	ND (1.0)	1.2	ND (1.0)	2.3
1,1-Dichloroethylene	7	80	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Cis-1,2-Dichloroethylene	70	100	ND (1.0)	6.9	ND (1.0)	ND (1.0)	ND (1.0)
Trans-1,2-Dichloroethylene	90	90	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Ethylbenzene	700	5000	8.5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
MTBE	70	5000	6.4	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
NAPHTHALENE	140	1000	5.9	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Tetrachloroethylene	5	50	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Toluene	1000	40000	14	1.2	ND (1.0)	ND (1.0)	ND (1.0)
1,1,1-Trichloroethane	200	4000	ND (1.0)	2.7	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethylene	5	30	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichlorofluoromethane	10000	100000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,2,3-TRICHLOROPROPANE	1000	10000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,2,4-TRIMETHYLBENZENE	10000	100000	38	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,3,5-TRIMETHYLBENZENE	100	1000	20	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Chloride	2	2	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
M/P-xylene	5000	5000	120	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
O-xylene	5000	5000	71	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
MADEP-EPH-04-1.1 (µg/L)							
C9-C18 ALIPHATICS	700	5000	ND (100)	NT	NT	NT	NT
C19-C36 ALIPHATICS	14000	50000	ND (100)	NT	NT	NT	NT
C11-C22 AROMATICS	200	5000	160	NT	NT	NT	NT
NAPHTHALENE	140	1000	4.2	NT	NT	NT	NT
MADEP-VPH-04-1.1 (µg/L)							
C5-C8 ALIPHATICS	300	3000	110	NT	NT	NT	NT
C9-C12 ALIPHATICS	700	5000	ND (100)	NT	NT	NT	NT
C9-C10 AROMATICS	200	7000	140	NT	NT	NT	NT
BENZENE	5	2000	4.4	NT	NT	NT	NT
MTBE	70	5000	2.6	NT	NT	NT	NT
TOLUENE	1000	40000	2.6	NT	NT	NT	NT
M/P-XYLENE	5000	5000	18	NT	NT	NT	NT
O-XYLENE	5000	5000	14	NT	NT	NT	NT

NOTES:

1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No standard promulgated
5. Shaded values exceed the MCP Reportable Concentrations (RCs).
6. Bolded values were detected above laboratory reporting limits
7. Bolded and shaded values exceed RCGW-1 criteria

Table 2
Analytical Results - Groundwater
Alewife Sewer Separation
Concord Avenue Neighborhood Improvements
Cambridge, MA

Parameter	Reportable Concentrations (RCs)							
	RCGW-1	RCGW-2	B-333	B-333	B-335	B-337	B-349	B-350
Sampling Date			1/29/2013	3/13/2013	1/29/2013	3/6/2013	3/13/2013	1/29/2013
Metals (µg/L)								
Arsenic	0.01	0.9	ND (0.010)	NT	ND (0.010)	NT	NT	ND (0.010)
Barium	2	50	0.32	NT	0.10	NT	NT	ND (0.050)
Cadmium	0.004	0.004	ND (0.0040)	NT	ND (0.0040)	NT	NT	ND (0.0040)
Chromium	0.1	0.3	ND (0.010)	NT	ND (0.010)	NT	NT	ND (0.010)
Lead	0.01	0.01	ND (0.010)	NT	ND (0.010)	NT	NT	ND (0.010)
Selenium	0.05	0.1	ND (0.050)	NT	ND (0.050)	NT	NT	ND (0.050)
Silver	0.007	0.007	ND (0.0050)	NT	ND (0.0050)	NT	NT	ND (0.0050)
Mercury	0.002	0.02	ND (0.00010)	NT	ND (0.00010)	NT	NT	ND (0.00010)
Volatile Organic Compounds (VOCs) (µg/L)								
TERT-AMYLMETHYL ETHER	~	~	ND (0.50)	ND (0.50)	ND (25)	ND (0.50)	ND (0.50)	ND (0.50)
Benzene	5	2000	ND (1.0)	ND (1.0)	ND (50) *	ND (1.0)	ND (1.0)	ND (1.0)
CHLOROETHANE	1000	10000	ND (2.0)	ND (2.0)	300	ND (2.0)	ND (2.0)	ND (2.0)
1,1-Dichloroethane	70	1000	10	ND (1.0)	2100	ND (1.0)	ND (1.0)	1.1
1,1-Dichloroethylene	7	80	2.9	ND (1.0)	550	ND (1.0)	ND (1.0)	ND (1.0)
Cis-1,2-Dichloroethylene	70	100	92	1.4	36000	ND (1.0)	ND (1.0)	8.7
Trans-1,2-Dichloroethylene	90	90	ND (1.0)	ND (1.0)	120	ND (1.0)	ND (1.0)	ND (1.0)
Ethylbenzene	700	5000	1.2	ND (1.0)	110	ND (1.0)	ND (1.0)	ND (1.0)
MTBE	70	5000	ND (1.0)	ND (1.0)	ND (50)	ND (1.0)	ND (1.0)	ND (1.0)
NAPHTHALENE	140	1000	ND (2.0)	ND (2.0)	ND (100)	ND (2.0)	ND (2.0)	ND (2.0)
Tetrachloroethylene	5	50	1.8	ND (1.0)	120	ND (1.0)	ND (1.0)	ND (1.0)
Toluene	1000	40000	6.1	ND (1.0)	680	ND (1.0)	ND (1.0)	1.4
1,1,1-Trichloroethane	200	4000	16	ND (1.0)	2700	ND (1.0)	ND (1.0)	2.5
Trichloroethylene	5	30	7.1	3.7	420	ND (1.0)	ND (1.0)	ND (1.0)
Trichlorofluoromethane	10000	100000	3.6	ND (2.0)	670	ND (2.0)	ND (2.0)	ND (2.0)
1,2,3-TRICHLOROPROPANE	1000	10000	ND (2.0)	ND (2.0)	ND (100)	ND (2.0)	ND (2.0)	ND (2.0)
1,2,4-TRIMETHYLBENZENE	10000	100000	ND (1.0)	ND (1.0)	ND (50)	ND (1.0)	ND (1.0)	ND (1.0)
1,3,5-TRIMETHYLBENZENE	100	1000	ND (1.0)	ND (1.0)	ND (50)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Chloride	2	2	7.7	ND (2.0)	3600	ND (2.0)	ND (2.0)	ND (2.0)
M/P-xylene	5000	5000	3.8	ND (2.0)	320	ND (2.0)	ND (2.0)	ND (2.0)
O-xylene	5000	5000	ND (1.0)	ND (1.0)	84	ND (1.0)	ND (1.0)	ND (1.0)
MADEP-EPH-04-1.1 (µg/L)								
C9-C18 ALIPHATICS	700	5000	NT	NT	NT	NT	NT	NT
C19-C36 ALIPHATICS	14000	50000	NT	NT	NT	NT	NT	NT
C11-C22 AROMATICS	200	5000	NT	NT	NT	NT	NT	NT
NAPHTHALENE	140	1000	NT	NT	NT	NT	NT	NT
MADEP-VPH-04-1.1 (µg/L)								
C5-C8 ALIPHATICS	300	3000	NT	NT	NT	NT	NT	NT
C9-C12 ALIPHATICS	700	5000	NT	NT	NT	NT	NT	NT
C9-C10 AROMATICS	200	7000	NT	NT	NT	NT	NT	NT
BENZENE	5	2000	NT	NT	NT	NT	NT	NT
MTBE	70	5000	NT	NT	NT	NT	NT	NT
TOLUENE	1000	40000	NT	NT	NT	NT	NT	NT
M/P-XYLENE	5000	5000	NT	NT	NT	NT	NT	NT
O-XYLENE	5000	5000	NT	NT	NT	NT	NT	NT

NOTES:

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2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No standard promulgated
5. Shaded values exceed the MCP Reportable Concentrations (RCs).
6. Bolded values were detected above laboratory reporting limits
7. Bolded and shaded values exceed RCGW-1 criteria

Appendix A – BWSC Form 119



UTILITY-RELATED ABATEMENT MEASURE (URAM)
TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

3 - 32044

A. SITE LOCATION:

- 1. Site Name/Location Aid:
- 2. Street Address:
- 3. City/Town: 4. ZIP Code:

- 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.
 - a. Tier I
 - b. Tier ID
 - c. Tier II

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

- 1. Provide an **Initial Utility-related Abatement Measure (URAM) Notification or Confirmation of an Oral URAM Notification.** (Sections D & E are not required)

- a. Check here if a URAM Notification was already made orally to DEP.

b. List Date of Oral Notification:
(mm/dd/yyyy)

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

- c. Yes
- d. No If No, provide LSP Name and License Number: i. LSP #:

ii. First Name: iii. Last Name:

- 2. Submit a **URAM Status Report.**
- 3. Submit a **Remedial Monitoring Report**, as Form BWSC119A. (This report can only be submitted through eDEP, concurrent with a URAM Status Report.)
 - a. Type of Report: (check one) i. Initial Report ii. Interim Report iii. Final Report
 - b. Number of Remedial Systems and/or Monitoring Programs:

A separate BWSC119A, URAM Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

- 4. Submit a **URAM Completion Statement.**

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

- a. Yes, Section E is not required b. No



UTILITY-RELATED ABATEMENT MEASURE (URAM)
TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

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B. THIS FORM IS BEING USED TO: (cont.)

5. Submit a Revised URAM Completion Statement.

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

a. Yes, Section E is not required b. No

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

C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT URAM:

1. Identify Location Type: (check all that apply) a. Public Right of Way b. Utility Easement c. Private Property

2. Identify Utility Type: (check all that apply) a. Drainage b. Electric c. Natural Gas

d. Sanitary/Combined Sewerage e. Steam Lines f. Telecommunications g. Telephone

h. Water i. Other Specify:

3. Source of the Release or TOR: (check all that apply) a. Transformer b. Fuel Tank c. Pipe

d. OHM Delivery e. AST f. Drums g. Tanker Truck h. Hose i. Line

j. UST Describe: UST Other k. Vehicle l. Boat/Vessel

m. Unknown n. Other:

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

a. Oils b. Chlorinated Solvents c. Heavy Metals

d. Others Specify:

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

1. Assessment and/or Monitoring Only

2. Temporary Covers or Caps

3. Deployment of Absorbent or Containment Materials

4. Temporary Water Supplies

5. Structure Venting System

6. Temporary Evacuation or Relocation of Residents

7. Product or NAPL Recovery

8. Fencing and Sign Posting

9. Groundwater Treatment Systems

10. Soil Vapor Extraction

11. Bioremediation

12. Air Sparging



UTILITY-RELATED ABATEMENT MEASURE (URAM)
TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

3 - 32044

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

13. Excavation of Contaminated Soils

a. Re-use, Recycling or Treatment

i. On Site

Estimated volume in cubic yards

ii. Off Site

Estimated volume in cubic yards

ii.a. Receiving Facility:

Town:

State:

ii.b. Receiving Facility:

Town:

State:

iii. Describe:

b. Store

i. On Site

Estimated volume in cubic yards

ii. Off Site

Estimated volume in cubic yards

ii.a. Receiving Facility:

Town:

State:

ii.b. Receiving Facility:

Town:

State:

c. Landfill

i. Cover

Estimated volume in cubic yards

Receiving Facility:

Town:

State:

ii. Disposal

Estimated volume in cubic yards

Receiving Facility:

Town:

State:

14. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount:

b. Receiving Facility:

Town:

State:

c. Receiving Facility:

Town:

State:

15. Removal of Other Contaminated Media:

a. Specify Type and Volume:

b. Receiving Facility:

Town:

State:

c. Receiving Facility:

Town:

State:

16. Other Response Actions:

Describe:

17. Use of Innovative Technologies:

Describe:



**UTILITY-RELATED ABATEMENT MEASURE (URAM)
TRANSMITTAL FORM**

Release Tracking Number

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

3 - 32044

E. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that a **Utility-Related Abatement Measure Status Report** and/or a **Remedial Monitoring Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that a **Utility-Related Abatement Measure Completion Statement** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply (ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

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

1. LSP #:

2. First Name:

3. Last Name:

4. Telephone:

5. Ext.:

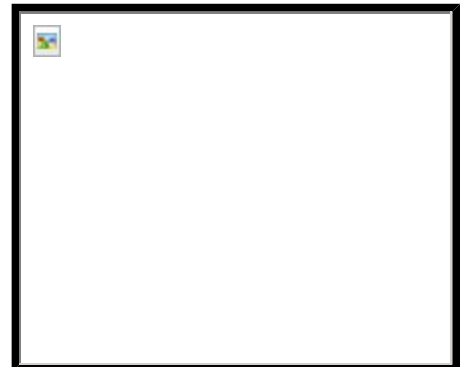
6. Email:

7. Signature:

8. Date:

(mm/dd/yyyy)

9. LSP Stamp:





UTILITY-RELATED ABATEMENT MEASURE (URAM)
TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

3 - 32044

F. PERSON UNDERTAKING URAM:

1. Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions
2. Name of Organization: CAMBRIDGE CITY OF
3. Contact First Name: KATHERINE 4. Last Name: WATKINS
5. Street: 147 HAMPSHIRE STREET 6. Title: ACTING CITY ENGINEER
7. City/Town: CAMBRIDGE 8. State: MA 9. ZIP Code: 021390000
10. Telephone: 617-349-4800 11. Ext.: 12. Email:

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

- 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 URAM Specify Relationship: MUNICIPAL UTILITY

H. REQUIRED ATTACHMENT AND SUBMITTALS:

1. Check here if any Remediation Waste, generated as a result of this URAM, will be stored, treated, managed, recycled or reused at the site following submission of the URAM Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.
- a. A Release Abatement Measure (RAM) Plan (BWSC106) b. Phase IV Remedy Implementation Plan (BWSC108)
2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
3. Check here if the property owner was NOT contacted prior to initiation of the URAM. If this is the case, you must attach an explanation of why the owner was not contacted, including the date and time when contact ultimately occurred.
4. Check here if this URAM will occur in connection with the construction of new public utilities. If this is the case, document the nature and extent of encountered contamination, the scope and expense of necessary mitigation and the benefits and limitations of project alternatives.
5. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@state.ma.us.
6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



UTILITY-RELATED ABATEMENT MEASURE (URAM)
TRANSMITTAL FORM

Release Tracking Number

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

3 - 32044

I. CERTIFICATION OF PERSON UNDERTAKING URAM:

1. I, , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By:
Signature

3. Title:

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

5. Date:
(mm/dd/yyyy)

6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street:

8. City/Town:

9. State:

10. ZIP Code:

11. Telephone:

12. Ext.:

13. Email:

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)



Appendix B – Laboratory Data Reports

July 24, 2012

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Huron B- Cambridge
Client Job Number:
Project Number: 2011140.01-A
Laboratory Work Order Number: 12G0403

Enclosed are results of analyses for samples received by the laboratory on July 12, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Kleinfelder/SEA - Cambridge, MA
 215 First Street, Suite 320
 Cambridge, MA 02142
 ATTN: Martha Zirbel

REPORT DATE: 7/24/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2011140.01-A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12G0403

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

PROJECT LOCATION: Huron B- Cambridge

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-227	12G0403-01	Soil	2011140.01A	SM 2540G SW-846 1030 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D	
B-229	12G0403-02	Soil	2011140.01A	SM 2540G SW-846 1030 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D	
B-232	12G0403-03	Soil	2011140.01A	SM 2540G SW-846 1030 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

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

SW-846 8015C

Qualifications:

Sample contamination falls between C18-C36 of the hydrocarbon range but does not match any reference standard. Sample chromatogram also shows the presence of PAH's.

Analyte & Samples(s) Qualified:

Unknown Hydrocarbons (C9-C36)

12G0403-01[B-227]

Sample contamination resembles that of coal tar, but does not match the reference standard exactly.

Analyte & Samples(s) Qualified:

Unknown Hydrocarbons (C9-C36)

12G0403-02[B-229]

SW-846 8082A

Qualifications:

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

Analyte & Samples(s) Qualified:

12G0403-01[B-227], 12G0403-02[B-229], 12G0403-03[B-232]

SW-846 8260C

Qualifications:

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

Analyte & Samples(s) Qualified:

1,4-Dioxane, Bromomethane, Dichlorodifluoromethane (Freon 12)

B055020-BS1, B055020-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Bromomethane, Carbon Disulfide, Chlorodibromomethane, Methylene Chloride, trans-1,3-Dichloropropene

12G0403-01[B-227], 12G0403-02[B-229], 12G0403-03[B-232]

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

12G0403-01[B-227], 12G0403-02[B-229], 12G0403-03[B-232], B055020-BLK1, B055020-BS1, B055020-BSD1

SW-846 8270D

Qualifications:

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

12G0403-01[B-227], 12G0403-02[B-229], 12G0403-03[B-232]

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

12G0403-02[B-229]

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

Analyte & Samples(s) Qualified:

Bis(2-chloroisopropyl)ether

12G0403-01[B-227], 12G0403-02[B-229], 12G0403-03[B-232]

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

B055312-BLK1, B055312-BS1, B055312-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:

2,4-Dinitrophenol, Bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate

12G0403-01[B-227], 12G0403-02[B-229], 12G0403-03[B-232]

SW-846 8260C

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

SW-846 8270D

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.



Daren J. Damboragian
Laboratory Manager

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Field Sample #: B-227

Sampled: 7/11/2012 13:30

Sample ID: 12G0403-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.7	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Benzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Bromobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Bromochloromethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Bromodichloromethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Bromoform	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Bromomethane	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
n-Butylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
sec-Butylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
tert-Butylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Carbon Disulfide	ND	0.55	mg/Kg dry	1	RL-07	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Carbon Tetrachloride	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Chlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Chlorodibromomethane	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Chloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Chloromethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
2-Chlorotoluene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
4-Chlorotoluene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2-Dibromoethane (EDB)	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Dibromomethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2-Dichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,3-Dichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,4-Dichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,1-Dichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2-Dichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,1-Dichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
cis-1,2-Dichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
trans-1,2-Dichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2-Dichloropropane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,3-Dichloropropane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
2,2-Dichloropropane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,1-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
cis-1,3-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
trans-1,3-Dichloropropene	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Diethyl Ether	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Diisopropyl Ether (DIPE)	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,4-Dioxane	ND	2.7	mg/Kg dry	1	V-16	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Ethylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Field Sample #: B-227

Sampled: 7/11/2012 13:30

Sample ID: 12G0403-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
2-Hexanone (MBK)	ND	0.55	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Isopropylbenzene (Cumene)	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Methylene Chloride	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	7/13/12	7/13/12 16:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.55	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Naphthalene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
n-Propylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Styrene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Tetrachloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Tetrahydrofuran	ND	0.22	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Toluene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2,3-Trichlorobenzene	ND	0.22	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2,4-Trichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,1,1-Trichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,1,2-Trichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Trichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,2,4-Trimethylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
1,3,5-Trimethylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
Vinyl Chloride	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF
o-Xylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	7/13/12	7/13/12 16:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.1	70-130	
Toluene-d8	99.3	70-130	
4-Bromofluorobenzene	99.2	70-130	

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Field Sample #: B-227

Sampled: 7/11/2012 13:30

Sample ID: 12G0403-01

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Acenaphthylene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Acetophenone	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Aniline	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Anthracene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Benzo(a)anthracene	1.1	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Benzo(a)pyrene	1.0	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Benzo(b)fluoranthene	1.1	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Benzo(g,h,i)perylene	0.64	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Benzo(k)fluoranthene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Bis(2-chloroethoxy)methane	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Bis(2-chloroethyl)ether	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Bis(2-chloroisopropyl)ether	ND	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.72	mg/Kg dry	1	V-20	SW-846 8270D	7/18/12	7/20/12 12:41	CDT
4-Bromophenylphenylether	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Butylbenzylphthalate	ND	1.4	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
4-Chloroaniline	ND	1.4	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2-Chloronaphthalene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2-Chlorophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Chrysene	0.92	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Dibenz(a,h)anthracene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Dibenzofuran	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Di-n-butylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
1,2-Dichlorobenzene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
1,3-Dichlorobenzene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
1,4-Dichlorobenzene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
3,3-Dichlorobenzidine	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2,4-Dichlorophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Diethylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2,4-Dimethylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Dimethylphthalate	ND	1.4	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2,4-Dinitrophenol	ND	1.4	mg/Kg dry	1	V-20	SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2,4-Dinitrotoluene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2,6-Dinitrotoluene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Di-n-octylphthalate	ND	1.4	mg/Kg dry	1	V-20	SW-846 8270D	7/18/12	7/20/12 12:41	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Fluoranthene	1.9	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Fluorene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Hexachlorobenzene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Hexachlorobutadiene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Hexachloroethane	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Indeno(1,2,3-cd)pyrene	0.89	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Isophorone	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2-Methylnaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Field Sample #: B-227

Sampled: 7/11/2012 13:30

Sample ID: 12G0403-01

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
3/4-Methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Naphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Nitrobenzene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
4-Nitrophenol	ND	1.4	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Pentachlorophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Phenanthrene	1.0	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Phenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
Pyrene	1.9	0.36	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
1,2,4-Trichlorobenzene	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2,4,5-Trichlorophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT
2,4,6-Trichlorophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/18/12	7/20/12 12:41	CDT

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	78.3	30-130	
Phenol-d6	81.6	30-130	
Nitrobenzene-d5	83.5	30-130	
2-Fluorobiphenyl	80.7	30-130	
2,4,6-Tribromophenol	109	30-130	
Terphenyl-d14	101	30-130	

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Field Sample #: B-227

Sampled: 7/11/2012 13:30

Sample ID: 12G0403-01

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/17/12	7/19/12 14:04	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		91.2	30-150					7/19/12 14:04	
Decachlorobiphenyl [2]		89.4	30-150					7/19/12 14:04	
Tetrachloro-m-xylene [1]		89.4	30-150					7/19/12 14:04	
Tetrachloro-m-xylene [2]		90.8	30-150					7/19/12 14:04	

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Sampled: 7/11/2012 13:30

Field Sample #: B-227

Sample ID: 12G0403-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	17	8.8	mg/Kg dry	1		SW-846 8015C	7/18/12	7/19/12 16:27	PJG
Unknown Hydrocarbons (C9-C36)	42	8.8	mg/Kg dry	1	Z-01	SW-846 8015C	7/18/12	7/19/12 16:27	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	48.9		40-140			7/19/12 16:27			
o-Terphenyl	49.0		40-140			7/19/12 16:27			

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Field Sample #: B-227

Sampled: 7/11/2012 13:30

Sample ID: 12G0403-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	7/13/12	7/16/12 12:22	OP
Barium	35	2.6	mg/Kg dry	1		SW-846 6010C	7/13/12	7/16/12 12:22	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	7/13/12	7/16/12 12:22	OP
Chromium	13	0.51	mg/Kg dry	1		SW-846 6010C	7/13/12	7/16/12 12:22	OP
Lead	7.8	0.77	mg/Kg dry	1		SW-846 6010C	7/13/12	7/16/12 12:22	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	7/16/12	7/17/12 12:55	SAJ
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	7/13/12	7/16/12 12:22	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	7/13/12	7/16/12 12:22	OP

Project Location: Huron B- Cambridge

Sample Description: 2011140.01A

Work Order: 12G0403

Date Received: 7/12/2012

Sampled: 7/11/2012 13:30

Field Sample #: B-227

Sample ID: 12G0403-01

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
Ignitability	Absent		present/absent	1		SW-846 1030	7/13/12	7/13/12 8:00	LL
% Solids	93.5		% Wt	1		SM 2540G	7/16/12	7/17/12 8:37	CMF

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12G0403-01 [B-227]	B055133	07/16/12
12G0403-02 [B-229]	B055133	07/16/12
12G0403-03 [B-232]	B055133	07/16/12

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0403-01 [B-227]	B055026	50.0	50.0	07/13/12
12G0403-02 [B-229]	B055026	50.0	50.0	07/13/12
12G0403-03 [B-232]	B055026	50.0	50.0	07/13/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0403-01 [B-227]	B055015	1.05	50.0	07/13/12
12G0403-02 [B-229]	B055015	1.03	50.0	07/13/12
12G0403-03 [B-232]	B055015	1.06	50.0	07/13/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0403-02 [B-229]	B055010	0.601	50.0	07/13/12
12G0403-03 [B-232]	B055010	0.606	50.0	07/13/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0403-01 [B-227]	B055105	0.596	50.0	07/16/12

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0403-01 [B-227]	B055372	30.3	1.00	07/18/12
12G0403-02 [B-229]	B055372	15.0	2.00	07/18/12
12G0403-03 [B-232]	B055372	15.2	2.00	07/18/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0403-01 [B-227]	B055286	10.0	10.0	07/17/12
12G0403-02 [B-229]	B055286	10.3	10.0	07/17/12
12G0403-03 [B-232]	B055286	10.0	10.0	07/17/12

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
12G0403-01 [B-227]	B055020	15.6	16.0	1	50	07/13/12
12G0403-02 [B-229]	B055020	12.3	15.9	0.1	50	07/13/12
12G0403-03 [B-232]	B055020	18.1	16.6	1	50	07/13/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0403-01 [B-227]	B055312	30.2	2.00	07/18/12
12G0403-02 [B-229]	B055312	30.2	5.00	07/18/12
12G0403-03 [B-232]	B055312	30.1	5.00	07/18/12

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 B055020 - SW-846 5035

Blank (B055020-BLK1)

Prepared & Analyzed: 07/13/12

Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.10	mg/Kg wet							
Bromoform	ND	0.25	mg/Kg wet							
Bromomethane	ND	0.25	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.50	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.25	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.10	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.25	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	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 B055020 - SW-846 5035

Blank (B055020-BLK1)

Prepared & Analyzed: 07/13/12

n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.20	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.20	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0240		mg/Kg wet	0.0250		96.1	70-130			
Surrogate: Toluene-d8	0.0247		mg/Kg wet	0.0250		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0250		mg/Kg wet	0.0250		100	70-130			

LCS (B055020-BS1)

Prepared & Analyzed: 07/13/12

Acetone	0.112	0.057	mg/Kg wet	0.113		99.0	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130			
Benzene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130			
Bromobenzene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
Bromochloromethane	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130			
Bromodichloromethane	0.0101	0.0023	mg/Kg wet	0.0113		89.0	70-130			
Bromoform	0.0105	0.0057	mg/Kg wet	0.0113		92.6	70-130			
Bromomethane	0.00698	0.0057	mg/Kg wet	0.0113		61.6	40-160	L-14		†
2-Butanone (MEK)	0.118	0.023	mg/Kg wet	0.113		104	40-160			†
n-Butylbenzene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
sec-Butylbenzene	0.0140	0.0011	mg/Kg wet	0.0113		123	70-130			
tert-Butylbenzene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0128	0.00057	mg/Kg wet	0.0113		113	70-130			
Carbon Disulfide	0.0116	0.011	mg/Kg wet	0.0113		103	70-130			
Carbon Tetrachloride	0.0110	0.0011	mg/Kg wet	0.0113		96.8	70-130			
Chlorobenzene	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130			
Chlorodibromomethane	0.00993	0.0057	mg/Kg wet	0.0113		87.6	70-130			
Chloroethane	0.0101	0.0023	mg/Kg wet	0.0113		88.7	70-130			
Chloroform	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			
Chloromethane	0.00870	0.0023	mg/Kg wet	0.0113		76.8	40-160			†
2-Chlorotoluene	0.0138	0.0011	mg/Kg wet	0.0113		121	70-130			
4-Chlorotoluene	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0104	0.0057	mg/Kg wet	0.0113		92.0	70-130			
1,2-Dibromoethane (EDB)	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130			
Dibromomethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
1,2-Dichlorobenzene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130			
1,3-Dichlorobenzene	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130			
1,4-Dichlorobenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	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 B055020 - SW-846 5035										
LCS (B055020-BS1)										
Prepared & Analyzed: 07/13/12										
Dichlorodifluoromethane (Freon 12)	0.00577	0.0023	mg/Kg wet	0.0113		50.9	40-160			L-14 †
1,1-Dichloroethane	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2-Dichloroethane	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,1-Dichloroethylene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
cis-1,2-Dichloroethylene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
trans-1,2-Dichloroethylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
1,2-Dichloropropane	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
1,3-Dichloropropane	0.0127	0.00057	mg/Kg wet	0.0113		112	70-130			
2,2-Dichloropropane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1-Dichloropropene	0.0127	0.0023	mg/Kg wet	0.0113		112	70-130			
cis-1,3-Dichloropropene	0.0105	0.0023	mg/Kg wet	0.0113		92.4	70-130			
trans-1,3-Dichloropropene	0.0112	0.0057	mg/Kg wet	0.0113		98.8	70-130			
Diethyl Ether	0.0122	0.0023	mg/Kg wet	0.0113		108	70-130			
Diisopropyl Ether (DIPE)	0.0132	0.00057	mg/Kg wet	0.0113		116	70-130			
1,4-Dioxane	0.148	0.057	mg/Kg wet	0.113		131	40-160			L-14, V-16 †
Ethylbenzene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
Hexachlorobutadiene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
2-Hexanone (MBK)	0.127	0.011	mg/Kg wet	0.113		112	40-160			†
Isopropylbenzene (Cumene)	0.0144	0.0011	mg/Kg wet	0.0113		127	70-130			
p-Isopropyltoluene (p-Cymene)	0.0131	0.0011	mg/Kg wet	0.0113		115	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130			
Methylene Chloride	0.0122	0.0057	mg/Kg wet	0.0113		108	70-130			
4-Methyl-2-pentanone (MIBK)	0.128	0.011	mg/Kg wet	0.113		113	40-160			†
Naphthalene	0.0106	0.0023	mg/Kg wet	0.0113		93.2	70-130			
n-Propylbenzene	0.0142	0.0011	mg/Kg wet	0.0113		126	70-130			
Styrene	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130			
1,1,1,2-Tetrachloroethane	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
1,1,2,2-Tetrachloroethane	0.0132	0.00057	mg/Kg wet	0.0113		116	70-130			
Tetrachloroethylene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
Tetrahydrofuran	0.0141	0.0045	mg/Kg wet	0.0113		125	70-130			
Toluene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
1,2,3-Trichlorobenzene	0.0121	0.0045	mg/Kg wet	0.0113		107	70-130			
1,2,4-Trichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
1,1,1-Trichloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,1,2-Trichloroethane	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
Trichloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
Trichlorofluoromethane (Freon 11)	0.0105	0.0023	mg/Kg wet	0.0113		92.4	70-130			
1,2,3-Trichloropropane	0.0136	0.0023	mg/Kg wet	0.0113		120	70-130			
1,2,4-Trimethylbenzene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
1,3,5-Trimethylbenzene	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130			
Vinyl Chloride	0.00933	0.0023	mg/Kg wet	0.0113		82.3	70-130			
m+p Xylene	0.0274	0.0023	mg/Kg wet	0.0227		121	70-130			
o-Xylene	0.0143	0.0011	mg/Kg wet	0.0113		127	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0270		mg/Kg wet	0.0283		95.1	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0288		mg/Kg wet	0.0283		102	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B055020 - SW-846 5035

LCS Dup (B055020-BSD1)

Prepared & Analyzed: 07/13/12

Acetone	0.109	0.057	mg/Kg wet	0.113		96.5	40-160	2.56	20	†
tert-Amyl Methyl Ether (TAME)	0.0127	0.00057	mg/Kg wet	0.0113		112	70-130	1.86	20	
Benzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	5.24	20	
Bromobenzene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130	4.23	20	
Bromochloromethane	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130	0.0856	20	
Bromodichloromethane	0.00967	0.0023	mg/Kg wet	0.0113		85.3	70-130	4.25	20	
Bromoform	0.0104	0.0057	mg/Kg wet	0.0113		91.5	70-130	1.20	20	
Bromomethane	0.00807	0.0057	mg/Kg wet	0.0113		71.2	40-160	14.5	20	†
2-Butanone (MEK)	0.120	0.023	mg/Kg wet	0.113		106	40-160	2.13	20	†
n-Butylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	5.21	20	
sec-Butylbenzene	0.0134	0.0011	mg/Kg wet	0.0113		119	70-130	3.72	20	
tert-Butylbenzene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	4.71	20	
tert-Butyl Ethyl Ether (TBEE)	0.0126	0.00057	mg/Kg wet	0.0113		111	70-130	1.79	20	
Carbon Disulfide	0.0106	0.011	mg/Kg wet	0.0113		93.6	70-130	9.27	20	
Carbon Tetrachloride	0.0105	0.0011	mg/Kg wet	0.0113		92.8	70-130	4.22	20	
Chlorobenzene	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130	2.62	20	
Chlorodibromomethane	0.00986	0.0057	mg/Kg wet	0.0113		87.0	70-130	0.687	20	
Chloroethane	0.00980	0.0023	mg/Kg wet	0.0113		86.5	70-130	2.51	20	
Chloroform	0.0118	0.0023	mg/Kg wet	0.0113		104	70-130	4.69	20	
Chloromethane	0.00824	0.0023	mg/Kg wet	0.0113		72.7	40-160	5.48	20	†
2-Chlorotoluene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	5.50	20	
4-Chlorotoluene	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	3.91	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0107	0.0057	mg/Kg wet	0.0113		94.4	70-130	2.58	20	
1,2-Dibromoethane (EDB)	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130	0.176	20	
Dibromomethane	0.0126	0.0011	mg/Kg wet	0.0113		112	70-130	1.95	20	
1,2-Dichlorobenzene	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	1.57	20	
1,3-Dichlorobenzene	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130	2.19	20	
1,4-Dichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	3.22	20	
Dichlorodifluoromethane (Freon 12)	0.00538	0.0023	mg/Kg wet	0.0113		47.5	40-160	6.91	20	L-14 †
1,1-Dichloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	4.43	20	
1,2-Dichloroethane	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	2.35	20	
1,1-Dichloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130	5.26	20	
cis-1,2-Dichloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.7	70-130	4.11	20	
trans-1,2-Dichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130	5.42	20	
1,2-Dichloropropane	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	4.27	20	
1,3-Dichloropropane	0.0126	0.00057	mg/Kg wet	0.0113		111	70-130	0.718	20	
2,2-Dichloropropane	0.0107	0.0011	mg/Kg wet	0.0113		94.3	70-130	7.06	20	
1,1-Dichloropropene	0.0120	0.0023	mg/Kg wet	0.0113		106	70-130	5.80	20	
cis-1,3-Dichloropropene	0.0103	0.0023	mg/Kg wet	0.0113		90.6	70-130	1.97	20	
trans-1,3-Dichloropropene	0.0110	0.0057	mg/Kg wet	0.0113		97.1	70-130	1.74	20	
Diethyl Ether	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130	3.10	20	
Diisopropyl Ether (DIPE)	0.0126	0.00057	mg/Kg wet	0.0113		112	70-130	4.30	20	
1,4-Dioxane	0.144	0.057	mg/Kg wet	0.113		127	40-160	3.19	20	V-16 †
Ethylbenzene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	3.86	20	
Hexachlorobutadiene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	3.77	20	
2-Hexanone (MBK)	0.130	0.011	mg/Kg wet	0.113		115	40-160	2.87	20	†
Isopropylbenzene (Cumene)	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130	4.67	20	
p-Isopropyltoluene (p-Cymene)	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	2.82	20	
Methyl tert-Butyl Ether (MTBE)	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	2.02	20	
Methylene Chloride	0.0117	0.0057	mg/Kg wet	0.0113		103	70-130	4.37	20	
4-Methyl-2-pentanone (MIBK)	0.130	0.011	mg/Kg wet	0.113		115	40-160	1.20	20	†
Naphthalene	0.0109	0.0023	mg/Kg wet	0.0113		96.2	70-130	3.17	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 B055020 - SW-846 5035										
LCS Dup (B055020-BSD1)										
Prepared & Analyzed: 07/13/12										
n-Propylbenzene	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	4.72	20	
Styrene	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	6.19	20	
1,1,1,2-Tetrachloroethane	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	4.08	20	
1,1,2,2-Tetrachloroethane	0.0131	0.00057	mg/Kg wet	0.0113		116	70-130	0.431	20	
Tetrachloroethylene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	3.56	20	
Tetrahydrofuran	0.0137	0.0045	mg/Kg wet	0.0113		121	70-130	3.26	20	
Toluene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	3.75	20	
1,2,3-Trichlorobenzene	0.0122	0.0045	mg/Kg wet	0.0113		108	70-130	1.21	20	
1,2,4-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	0.666	20	
1,1,1-Trichloroethane	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130	6.46	20	
1,1,2-Trichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	1.66	20	
Trichloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130	5.18	20	
Trichlorofluoromethane (Freon 11)	0.0101	0.0023	mg/Kg wet	0.0113		89.2	70-130	3.52	20	
1,2,3-Trichloropropane	0.0133	0.0023	mg/Kg wet	0.0113		117	70-130	2.36	20	
1,2,4-Trimethylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130	2.42	20	
1,3,5-Trimethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130	4.67	20	
Vinyl Chloride	0.00867	0.0023	mg/Kg wet	0.0113		76.5	70-130	7.30	20	
m+p Xylene	0.0264	0.0023	mg/Kg wet	0.0227		117	70-130	3.58	20	
o-Xylene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	3.62	20	
Surrogate: 1,2-Dichloroethane-d4	0.0264		mg/Kg wet	0.0283		93.0	70-130			
Surrogate: Toluene-d8	0.0281		mg/Kg wet	0.0283		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0285		mg/Kg wet	0.0283		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
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Batch B055312 - SW-846 3546

Blank (B055312-BLK1)

Prepared & Analyzed: 07/18/12

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							V-19
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							

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 B055312 - SW-846 3546

Blank (B055312-BLK1)

Prepared & Analyzed: 07/18/12

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	4.41		mg/Kg wet	6.64		66.3	30-130			
Surrogate: Phenol-d6	4.17		mg/Kg wet	6.64		62.7	30-130			
Surrogate: Nitrobenzene-d5	2.81		mg/Kg wet	3.32		84.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.66		mg/Kg wet	3.32		80.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.25		mg/Kg wet	6.64		79.1	30-130			
Surrogate: Terphenyl-d14	3.04		mg/Kg wet	3.32		91.5	30-130			

LCS (B055312-BS1)

Prepared & Analyzed: 07/18/12

Acenaphthene	1.35	0.17	mg/Kg wet	1.66		81.1	40-140			
Acenaphthylene	1.32	0.17	mg/Kg wet	1.66		79.5	40-140			
Acetophenone	1.19	0.34	mg/Kg wet	1.66		71.5	40-140			
Aniline	0.891	0.34	mg/Kg wet	1.66		53.6	40-140			
Anthracene	1.41	0.17	mg/Kg wet	1.66		85.1	40-140			
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.66		88.7	40-140			
Benzo(a)pyrene	1.39	0.17	mg/Kg wet	1.66		83.6	40-140			
Benzo(b)fluoranthene	1.34	0.17	mg/Kg wet	1.66		80.9	40-140			
Benzo(g,h,i)perylene	1.86	0.17	mg/Kg wet	1.66		112	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.66		78.0	40-140			
Bis(2-chloroethoxy)methane	1.40	0.34	mg/Kg wet	1.66		84.5	40-140			
Bis(2-chloroethyl)ether	1.27	0.34	mg/Kg wet	1.66		76.7	40-140			
Bis(2-chloroisopropyl)ether	1.16	0.34	mg/Kg wet	1.66		70.0	40-140			
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.66		99.0	40-140			
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.66		90.7	40-140			
Butylbenzylphthalate	1.65	0.66	mg/Kg wet	1.66		99.3	40-140			
4-Chloroaniline	0.944	0.66	mg/Kg wet	1.66		56.8	15-140			†
2-Chloronaphthalene	1.22	0.34	mg/Kg wet	1.66		73.4	40-140			
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.66		78.9	30-130			
Chrysene	1.36	0.17	mg/Kg wet	1.66		82.1	40-140			
Dibenz(a,h)anthracene	1.81	0.17	mg/Kg wet	1.66		109	40-140			
Dibenzofuran	1.36	0.34	mg/Kg wet	1.66		82.0	40-140			
Di-n-butylphthalate	1.48	0.34	mg/Kg wet	1.66		88.8	40-140			
1,2-Dichlorobenzene	1.19	0.34	mg/Kg wet	1.66		71.9	40-140			
1,3-Dichlorobenzene	1.22	0.34	mg/Kg wet	1.66		73.2	40-140			
1,4-Dichlorobenzene	1.18	0.34	mg/Kg wet	1.66		71.2	40-140			
3,3-Dichlorobenzidine	1.36	0.17	mg/Kg wet	1.66		82.0	40-140			
2,4-Dichlorophenol	1.49	0.34	mg/Kg wet	1.66		89.6	30-130			
Diethylphthalate	1.43	0.34	mg/Kg wet	1.66		86.3	40-140			
2,4-Dimethylphenol	1.45	0.34	mg/Kg wet	1.66		87.3	30-130			
Dimethylphthalate	1.42	0.66	mg/Kg wet	1.66		85.4	40-140			
2,4-Dinitrophenol	0.852	0.66	mg/Kg wet	1.66		51.3	15-140			V-19 †
2,4-Dinitrotoluene	1.57	0.34	mg/Kg wet	1.66		94.7	40-140			
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.66		99.0	40-140			
Di-n-octylphthalate	1.60	0.66	mg/Kg wet	1.66		96.3	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.42	0.34	mg/Kg wet	1.66		85.8	40-140			
Fluoranthene	1.46	0.17	mg/Kg wet	1.66		88.0	40-140			
Fluorene	1.41	0.17	mg/Kg wet	1.66		84.8	40-140			
Hexachlorobenzene	1.49	0.34	mg/Kg wet	1.66		89.9	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
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Batch B055312 - SW-846 3546

LCS (B055312-BS1)

Prepared & Analyzed: 07/18/12

Hexachlorobutadiene	1.39	0.34	mg/Kg wet	1.66		83.4	40-140			
Hexachloroethane	1.25	0.34	mg/Kg wet	1.66		75.0	40-140			
Indeno(1,2,3-cd)pyrene	1.85	0.17	mg/Kg wet	1.66		111	40-140			
Isophorone	1.37	0.34	mg/Kg wet	1.66		82.7	40-140			
2-Methylnaphthalene	1.28	0.17	mg/Kg wet	1.66		77.3	40-140			
2-Methylphenol	1.36	0.34	mg/Kg wet	1.66		81.6	30-130			
3/4-Methylphenol	1.23	0.34	mg/Kg wet	1.66		73.9	30-130			
Naphthalene	1.25	0.17	mg/Kg wet	1.66		75.0	40-140			
Nitrobenzene	1.37	0.34	mg/Kg wet	1.66		82.6	40-140			
2-Nitrophenol	1.51	0.34	mg/Kg wet	1.66		91.2	30-130			
4-Nitrophenol	1.65	0.66	mg/Kg wet	1.66		99.3	15-140			†
Pentachlorophenol	1.36	0.34	mg/Kg wet	1.66		82.0	30-130			
Phenanthrene	1.41	0.17	mg/Kg wet	1.66		84.8	40-140			
Phenol	1.37	0.34	mg/Kg wet	1.66		82.5	15-140			†
Pyrene	1.53	0.17	mg/Kg wet	1.66		92.0	40-140			
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.66		80.9	40-140			
2,4,5-Trichlorophenol	1.51	0.34	mg/Kg wet	1.66		90.8	30-130			
2,4,6-Trichlorophenol	1.53	0.34	mg/Kg wet	1.66		92.1	30-130			
Surrogate: 2-Fluorophenol	4.90		mg/Kg wet	6.64		73.7	30-130			
Surrogate: Phenol-d6	4.66		mg/Kg wet	6.64		70.2	30-130			
Surrogate: Nitrobenzene-d5	3.07		mg/Kg wet	3.32		92.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.83		mg/Kg wet	3.32		85.2	30-130			
Surrogate: 2,4,6-Tribromophenol	6.41		mg/Kg wet	6.64		96.5	30-130			
Surrogate: Terphenyl-d14	3.30		mg/Kg wet	3.32		99.2	30-130			

LCS Dup (B055312-BS1)

Prepared & Analyzed: 07/18/12

Acenaphthene	1.36	0.17	mg/Kg wet	1.66		82.0	40-140	1.01	30	
Acenaphthylene	1.33	0.17	mg/Kg wet	1.66		79.9	40-140	0.527	30	
Acetophenone	1.10	0.34	mg/Kg wet	1.66		66.5	40-140	7.25	30	
Aniline	0.851	0.34	mg/Kg wet	1.66		51.3	40-140	4.50	30	
Anthracene	1.45	0.17	mg/Kg wet	1.66		87.3	40-140	2.53	30	
Benzo(a)anthracene	1.49	0.17	mg/Kg wet	1.66		89.4	40-140	0.854	30	
Benzo(a)pyrene	1.43	0.17	mg/Kg wet	1.66		86.3	40-140	3.25	30	
Benzo(b)fluoranthene	1.40	0.17	mg/Kg wet	1.66		84.3	40-140	4.12	30	
Benzo(g,h,i)perylene	1.73	0.17	mg/Kg wet	1.66		104	40-140	7.03	30	
Benzo(k)fluoranthene	1.34	0.17	mg/Kg wet	1.66		80.4	40-140	3.06	30	
Bis(2-chloroethoxy)methane	1.35	0.34	mg/Kg wet	1.66		81.0	40-140	4.18	30	
Bis(2-chloroethyl)ether	1.21	0.34	mg/Kg wet	1.66		73.1	40-140	4.75	30	
Bis(2-chloroisopropyl)ether	1.10	0.34	mg/Kg wet	1.66		66.0	40-140	5.94	30	
Bis(2-Ethylhexyl)phthalate	1.62	0.34	mg/Kg wet	1.66		97.4	40-140	1.61	30	
4-Bromophenylphenylether	1.45	0.34	mg/Kg wet	1.66		87.5	40-140	3.50	30	
Butylbenzylphthalate	1.65	0.66	mg/Kg wet	1.66		99.6	40-140	0.322	30	
4-Chloroaniline	1.02	0.66	mg/Kg wet	1.66		61.6	15-140	8.11	30	†
2-Chloronaphthalene	1.17	0.34	mg/Kg wet	1.66		70.4	40-140	4.09	30	
2-Chlorophenol	1.23	0.34	mg/Kg wet	1.66		73.9	30-130	6.52	30	
Chrysene	1.37	0.17	mg/Kg wet	1.66		82.4	40-140	0.365	30	
Dibenz(a,h)anthracene	1.72	0.17	mg/Kg wet	1.66		104	40-140	4.98	30	
Dibenzofuran	1.39	0.34	mg/Kg wet	1.66		83.5	40-140	1.84	30	
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.66		93.5	40-140	5.13	30	
1,2-Dichlorobenzene	1.14	0.34	mg/Kg wet	1.66		68.6	40-140	4.64	30	
1,3-Dichlorobenzene	1.16	0.34	mg/Kg wet	1.66		69.9	40-140	4.50	30	
1,4-Dichlorobenzene	1.16	0.34	mg/Kg wet	1.66		69.8	40-140	1.99	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 B055312 - SW-846 3546										
LCS Dup (B055312-BSD1)										
Prepared & Analyzed: 07/18/12										
3,3-Dichlorobenzidine	1.41	0.17	mg/Kg wet	1.66		85.0	40-140	3.67	30	
2,4-Dichlorophenol	1.48	0.34	mg/Kg wet	1.66		89.1	30-130	0.515	30	
Diethylphthalate	1.51	0.34	mg/Kg wet	1.66		90.6	40-140	4.84	30	
2,4-Dimethylphenol	1.43	0.34	mg/Kg wet	1.66		86.3	30-130	1.15	30	
Dimethylphthalate	1.47	0.66	mg/Kg wet	1.66		88.5	40-140	3.54	30	
2,4-Dinitrophenol	0.923	0.66	mg/Kg wet	1.66		55.5	15-140	7.94	30	V-19 †
2,4-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.66		99.3	40-140	4.70	30	
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.66		99.4	40-140	0.403	30	
Di-n-octylphthalate	1.74	0.66	mg/Kg wet	1.66		105	40-140	8.26	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.38	0.34	mg/Kg wet	1.66		82.9	40-140	3.42	30	
Fluoranthene	1.77	0.17	mg/Kg wet	1.66		106	40-140	18.9	30	
Fluorene	1.46	0.17	mg/Kg wet	1.66		88.0	40-140	3.71	30	
Hexachlorobenzene	1.44	0.34	mg/Kg wet	1.66		86.5	40-140	3.90	30	
Hexachlorobutadiene	1.36	0.34	mg/Kg wet	1.66		81.8	40-140	1.94	30	
Hexachloroethane	1.18	0.34	mg/Kg wet	1.66		71.1	40-140	5.39	30	
Indeno(1,2,3-cd)pyrene	1.72	0.17	mg/Kg wet	1.66		104	40-140	6.87	30	
Isophorone	1.34	0.34	mg/Kg wet	1.66		80.7	40-140	2.42	30	
2-Methylnaphthalene	1.26	0.17	mg/Kg wet	1.66		75.9	40-140	1.77	30	
2-Methylphenol	1.18	0.34	mg/Kg wet	1.66		71.0	30-130	13.9	30	
3/4-Methylphenol	1.20	0.34	mg/Kg wet	1.66		72.2	30-130	2.30	30	
Naphthalene	1.20	0.17	mg/Kg wet	1.66		72.5	40-140	3.39	30	
Nitrobenzene	1.33	0.34	mg/Kg wet	1.66		80.1	40-140	3.05	30	
2-Nitrophenol	1.48	0.34	mg/Kg wet	1.66		89.0	30-130	2.40	30	
4-Nitrophenol	1.87	0.66	mg/Kg wet	1.66		113	15-140	12.6	30	†
Pentachlorophenol	1.51	0.34	mg/Kg wet	1.66		91.0	30-130	10.4	30	
Phenanthrene	1.41	0.17	mg/Kg wet	1.66		84.7	40-140	0.142	30	
Phenol	1.30	0.34	mg/Kg wet	1.66		78.2	15-140	5.38	30	†
Pyrene	1.56	0.17	mg/Kg wet	1.66		94.1	40-140	2.24	30	
1,2,4-Trichlorobenzene	1.28	0.34	mg/Kg wet	1.66		77.0	40-140	4.94	30	
2,4,5-Trichlorophenol	1.60	0.34	mg/Kg wet	1.66		96.6	30-130	6.17	30	
2,4,6-Trichlorophenol	1.55	0.34	mg/Kg wet	1.66		93.6	30-130	1.64	30	
Surrogate: 2-Fluorophenol	4.50		mg/Kg wet	6.64		67.8	30-130			
Surrogate: Phenol-d6	4.32		mg/Kg wet	6.64		65.0	30-130			
Surrogate: Nitrobenzene-d5	2.91		mg/Kg wet	3.32		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.72		mg/Kg wet	3.32		81.9	30-130			
Surrogate: 2,4,6-Tribromophenol	6.89		mg/Kg wet	6.64		104	30-130			
Surrogate: Terphenyl-d14	3.26		mg/Kg wet	3.32		98.0	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B055286 - SW-846 3546

Blank (B055286-BLK1)

Prepared: 07/17/12 Analyzed: 07/18/12

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	0.181		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		96.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.1	30-150			

LCS (B055286-BS1)

Prepared: 07/17/12 Analyzed: 07/18/12

Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		112	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.212		mg/Kg wet	0.200		106	30-150			

LCS Dup (B055286-BSD1)

Prepared: 07/17/12 Analyzed: 07/18/12

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		106	40-140	4.66	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		113	40-140	4.94	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		101	40-140	5.66	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		103	40-140	3.05	30	
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.184		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.200		101	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 B055372 - SW-846 3546										
Blank (B055372-BLK1)										
Prepared: 07/18/12 Analyzed: 07/19/12										
Diesel Range Organics	ND	8.3	mg/Kg wet							
Asphalt	ND	8.3	mg/Kg wet							
Unknown Hydrocarbons (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.83		mg/Kg wet	3.33		84.9	40-140			
Surrogate: o-Terphenyl	2.83		mg/Kg wet	3.33		85.0	40-140			
LCS (B055372-BS1)										
Prepared: 07/18/12 Analyzed: 07/19/12										
Diesel Range Organics	27.6	8.3	mg/Kg wet	33.3		82.8	40-140			
Fuel Oil #2	27.3	8.3	mg/Kg wet	33.3		82.0	40-140			
Surrogate: o-Terphenyl	3.02		mg/Kg wet	3.33		90.5	40-140			
Surrogate: o-Terphenyl	2.96		mg/Kg wet	3.33		88.7	40-140			
LCS Dup (B055372-BSD1)										
Prepared: 07/18/12 Analyzed: 07/19/12										
Diesel Range Organics	26.3	8.3	mg/Kg wet	33.3		78.8	40-140	4.96		
Fuel Oil #2	26.0	8.3	mg/Kg wet	33.3		77.9	40-140	5.14	25	
Surrogate: o-Terphenyl	2.78		mg/Kg wet	3.33		83.3	40-140			
Surrogate: o-Terphenyl	2.73		mg/Kg wet	3.33		81.9	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B055010 - SW-846 7471

Blank (B055010-BLK1)

Prepared: 07/13/12 Analyzed: 07/16/12

Mercury ND 0.025 mg/Kg wet

LCS (B055010-BS1)

Prepared: 07/13/12 Analyzed: 07/16/12

Mercury 4.45 0.33 mg/Kg wet 3.73 119 71.7-128.3

LCS Dup (B055010-BSD1)

Prepared: 07/13/12 Analyzed: 07/16/12

Mercury 4.39 0.33 mg/Kg wet 3.73 118 71.7-128.3 1.46 30

Batch B055015 - SW-846 3050B

Blank (B055015-BLK1)

Prepared: 07/13/12 Analyzed: 07/16/12

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 2.5 mg/Kg wet
 Silver ND 0.50 mg/Kg wet

LCS (B055015-BS1)

Prepared: 07/13/12 Analyzed: 07/16/12

Arsenic 187 5.0 mg/Kg wet 168 111 83.3-117.3
 Barium 237 5.0 mg/Kg wet 213 111 54.9-116.9
 Cadmium 112 0.50 mg/Kg wet 103 109 83.6-115.5
 Chromium 131 0.99 mg/Kg wet 119 110 81.6-117.6
 Lead 80.8 1.5 mg/Kg wet 76.9 105 81.3-118.7
 Selenium 133 9.9 mg/Kg wet 126 106 80.2-120.6
 Silver 40.5 0.99 mg/Kg wet 42.3 95.8 66.4-133.8

LCS (B055015-BS2)

Prepared: 07/13/12 Analyzed: 07/16/12

Lead 0.820 0.74 mg/Kg wet 0.743 110 80-120

LCS Dup (B055015-BSD1)

Prepared: 07/13/12 Analyzed: 07/16/12

Arsenic 178 5.0 mg/Kg wet 168 106 83.3-117.3 4.67 30
 Barium 228 5.0 mg/Kg wet 213 107 54.9-116.9 4.09 30
 Cadmium 109 0.50 mg/Kg wet 103 106 83.6-115.5 3.14 30
 Chromium 126 1.0 mg/Kg wet 119 106 81.6-117.6 4.12 30
 Lead 77.5 1.5 mg/Kg wet 76.9 101 81.3-118.7 4.13 30
 Selenium 127 10 mg/Kg wet 126 101 80.2-120.6 4.67 30
 Silver 38.8 1.0 mg/Kg wet 42.3 91.8 66.4-133.8 4.25 30

Batch B055105 - SW-846 7471

Blank (B055105-BLK1)

Prepared: 07/16/12 Analyzed: 07/17/12

Mercury ND 0.025 mg/Kg wet

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B055105 - SW-846 7471										
LCS (B055105-BS1)					Prepared: 07/16/12 Analyzed: 07/17/12					
Mercury	4.30	0.33	mg/Kg wet	3.73		115	71.7-128.3			
LCS Dup (B055105-BSD1)					Prepared: 07/16/12 Analyzed: 07/17/12					
Mercury	4.12	0.33	mg/Kg wet	3.73		110	71.7-128.3	4.40	30	

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-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.
O-32	A five times dilution was performed as part of the standard analytical procedure.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
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. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy 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.
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.
Z-01	Sample contamination falls between C18-C36 of the hydrocarbon range but does not match any reference standard. Sample chromatogram also shows the presence of PAH's.
Z-01a	Sample contamination resembles that of coal tar, but does not match the reference standard exactly.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC
Barium	CT,NH,NY,ME,NC
Cadmium	CT,NH,NY,ME,NC
Chromium	CT,NH,NY,ME,NC
Lead	CT,NH,NY,AIHA,ME,NC
Selenium	CT,NH,NY,ME,NC
Silver	CT,NH,NY,ME,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME
SW-846 8015C in Soil	
Diesel Range Organics	NY,NH
o-Terphenyl	NY,NH
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D 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

CERTIFICATIONS

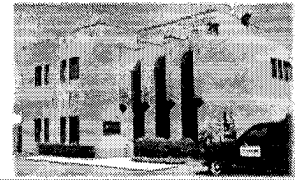
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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



Sample Receipt Checklist

CLIENT NAME: Kleinfelder RECEIVED BY: PB DATE: 7.12.12

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

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

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.9

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

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

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

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

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

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

Containers received at Con-Test

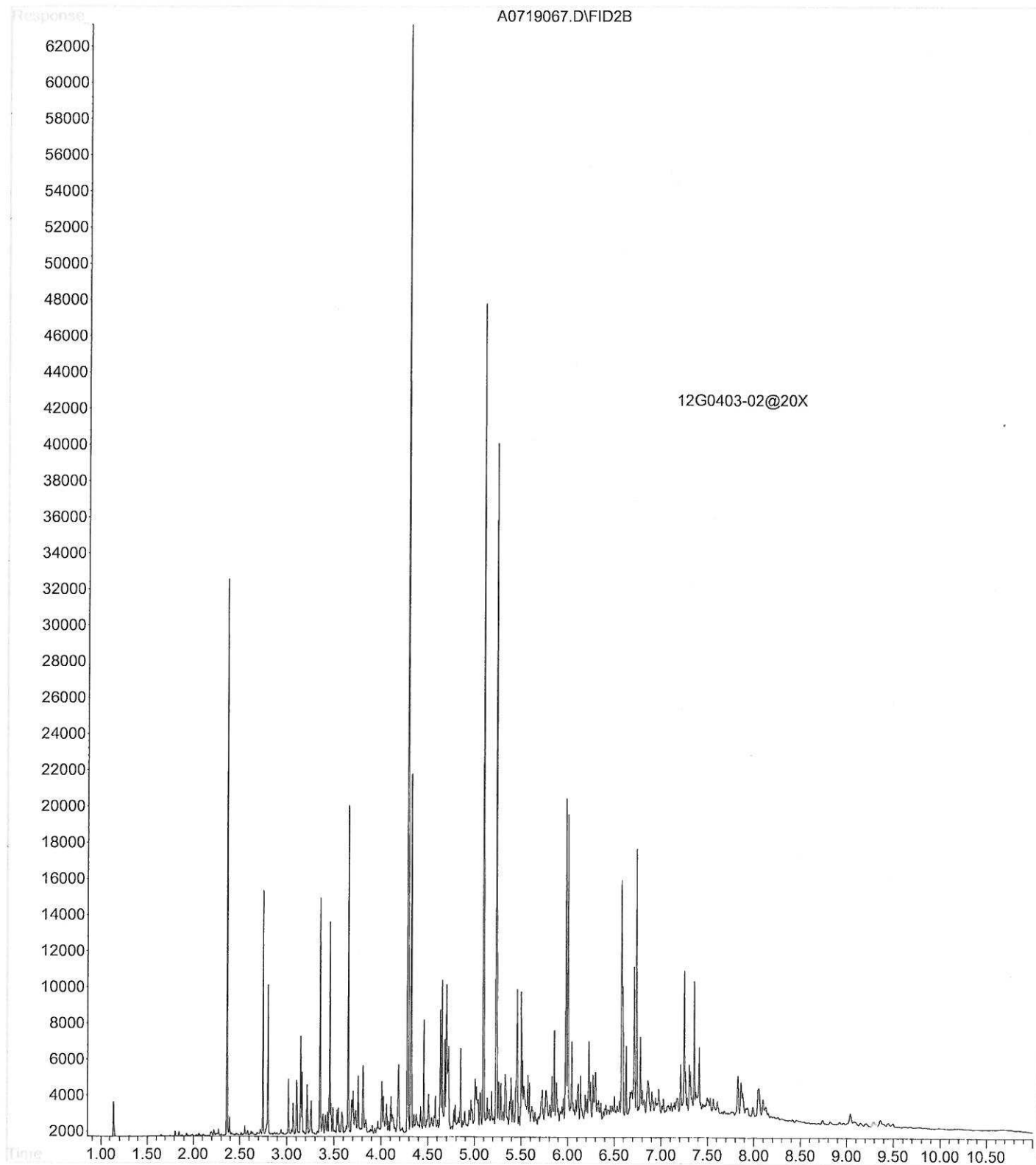
	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> /clear jar	<u>6</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>3</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: _____

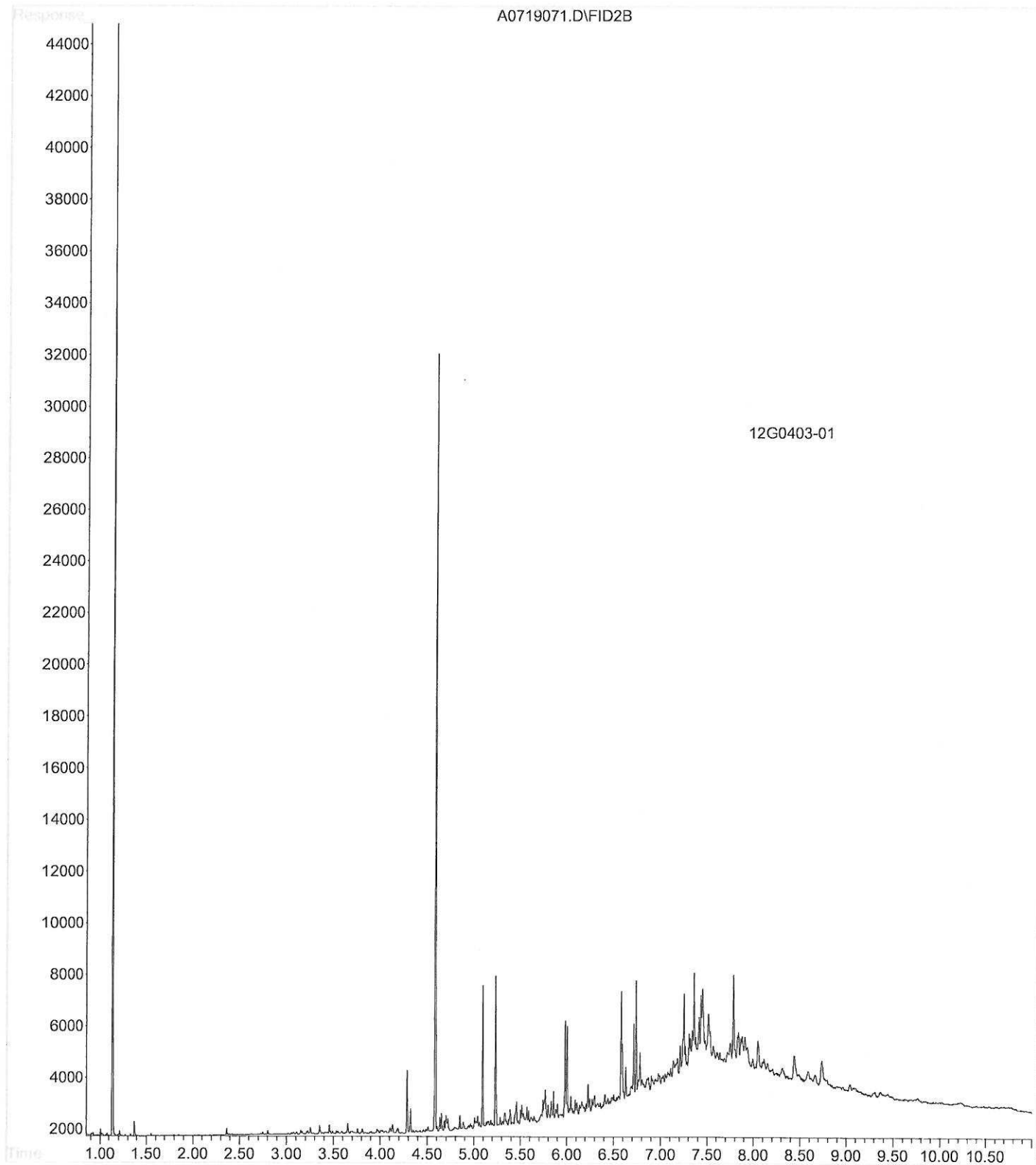
40 mL vials: # HCl _____ # Methanol 3
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____
 Time and Date Frozen: _____

Doc# 277
 Rev. 3 May 2012

File : D:\HPCHEM\1\DATA\A071912.SEC\A0719067.D
Operator : CJM
Acquired : 19 Jul 2012 3:52 pm using AcqMethod ETPH06.M
Instrument : 5890DFID
Sample Name: 12G0403-02@20X
Misc Info :
Vial Number: 25



File : D:\HPCHEM\1\DATA\A071912.SEC\A0719071.D
Operator : CJM
Acquired : 19 Jul 2012 4:27 pm using AcqMethod ETPH06.M
Instrument : 5890DFID
Sample Name: 12G0403-01
Misc Info :
Vial Number: 29



August 3, 2012

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Huron B
Client Job Number:
Project Number: 2011140.01-A
Laboratory Work Order Number: 12G0867

Enclosed are results of analyses for samples received by the laboratory on July 25, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Kleinfelder/SEA - Cambridge, MA
 215 First Street, Suite 320
 Cambridge, MA 02142
 ATTN: Martha Zirbel

REPORT DATE: 8/3/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2011140.01-A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12G0867

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

PROJECT LOCATION: Huron B

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
2011140.01A/B-242/0.5-5.0ft	12G0867-01	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				2011140.01A/B-248/0.5-4.0ft	12G0867-02
SM18-20 2510B					
SW-846 1010					
SW-846 6010C					
SW-846 7471B					
SW-846 8015C					
SW-846 8082A					
SW-846 8260C					
SW-846 8270D					
SW-846 9014					
SW-846 9030A					
SW-846 9045C					
2011140.01A/B-204/0.5-8.0ft	12G0867-03	Soil			
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

Kleinfelder/SEA - Cambridge, MA
 215 First Street, Suite 320
 Cambridge, MA 02142
 ATTN: Martha Zirbel

REPORT DATE: 8/3/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2011140.01-A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12G0867

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

PROJECT LOCATION: Huron B

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
2011140.01A/B-217/0.5-5.0ft	12G0867-04	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				2011140.01A/B-205/0.5-9.0ft	12G0867-05
SM18-20 2510B					
SW-846 1010					
SW-846 6010C					
SW-846 7471B					
SW-846 8015C					
SW-846 8082A					
SW-846 8260C					
SW-846 8270D					
SW-846 9014					
SW-846 9030A					
SW-846 9045C					
2011140.01A/B-203/0.5-4.0ft	12G0867-06	Soil			
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

CASE NARRATIVE SUMMARY

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

SW-846 8015C**Qualifications:**

Sample contamination falls between C20-C36 of the hydrocarbon range but does not match any reference standard.

Analyte & Samples(s) Qualified:**Unknown Hydrocarbons (C9-C36)**

12G0867-02[2011140.01A/B-248/0.5-4.0ft], 12G0867-04[2011140.01A/B-217/0.5-5.0ft]

Sample contamination falls within C16-C36 of the hydrocarbon range but does not match any reference standard. The chromatogram shows the presence of PAH's.

Analyte & Samples(s) Qualified:**Unknown Hydrocarbons (C9-C36)**

12G0867-03[2011140.01A/B-204/0.5-8.0ft], 12G0867-05[2011140.01A/B-205/0.5-9.0ft]

SW-846 8260C**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 high side.

Analyte & Samples(s) Qualified:**sec-Butylbenzene**

B055952-BS1, B055952-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:**p-Isopropyltoluene (p-Cymene), tert-Butylbenzene**

B055952-BS1

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

Analyte & Samples(s) Qualified:**Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12)**

B055952-BS1, B055952-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Bromomethane, Carbon Disulfide, Chloromethane, Methylene Chloride**

12G0867-01[2011140.01A/B-242/0.5-5.0ft], 12G0867-02[2011140.01A/B-248/0.5-4.0ft], 12G0867-03[2011140.01A/B-204/0.5-8.0ft],
12G0867-04[2011140.01A/B-217/0.5-5.0ft], 12G0867-05[2011140.01A/B-205/0.5-9.0ft], 12G0867-06[2011140.01A/B-203/0.5-4.0ft], B055952-BLK1

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

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

12G0867-01[2011140.01A/B-242/0.5-5.0ft], 12G0867-02[2011140.01A/B-248/0.5-4.0ft], 12G0867-03[2011140.01A/B-204/0.5-8.0ft],
12G0867-04[2011140.01A/B-217/0.5-5.0ft], 12G0867-05[2011140.01A/B-205/0.5-9.0ft], 12G0867-06[2011140.01A/B-203/0.5-4.0ft], B055952-BLK1, B055952-BS1,
B055952-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

12G0867-01[2011140.01A/B-242/0.5-5.0ft], 12G0867-02[2011140.01A/B-248/0.5-4.0ft], 12G0867-03[2011140.01A/B-204/0.5-8.0ft],
12G0867-04[2011140.01A/B-217/0.5-5.0ft], 12G0867-05[2011140.01A/B-205/0.5-9.0ft], 12G0867-06[2011140.01A/B-203/0.5-4.0ft], B055952-BLK1, B055952-BS1,
B055952-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:

Bromomethane, n-Butylbenzene, p-Isopropyltoluene (p-Cymene), sec-Butylbenzene

B055952-BS1, B055952-BSD1

SW-846 8270D

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:

Aniline

12G0867-01[2011140.01A/B-242/0.5-5.0ft], 12G0867-02[2011140.01A/B-248/0.5-4.0ft], 12G0867-03[2011140.01A/B-204/0.5-8.0ft],
12G0867-04[2011140.01A/B-217/0.5-5.0ft], 12G0867-05[2011140.01A/B-205/0.5-9.0ft], 12G0867-06[2011140.01A/B-203/0.5-4.0ft], B055843-BLK1, B055843-BS1,
B055843-BSD1

Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

12G0867-05[2011140.01A/B-205/0.5-9.0ft]

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

B055843-BLK1, B055843-BS1, B055843-BSD1

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

B055843-BLK1, B055843-BS1, B055843-BSD1

SW-846 9045C

Qualifications:

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

12G0867-01[2011140.01A/B-242/0.5-5.0ft], 12G0867-02[2011140.01A/B-248/0.5-4.0ft], 12G0867-03[2011140.01A/B-204/0.5-8.0ft],
12G0867-04[2011140.01A/B-217/0.5-5.0ft], 12G0867-05[2011140.01A/B-205/0.5-9.0ft], B055882-DUP1, B055883-DUP1

SW-846 8260C

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

SW-846 8270D

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.

A handwritten signature in black ink, appearing to read "M Erickson", is written on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.8	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Benzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Bromobenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Bromochloromethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Bromodichloromethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Bromoform	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Bromomethane	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:18	EEH
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
n-Butylbenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
sec-Butylbenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
tert-Butylbenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Carbon Disulfide	ND	0.56	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Carbon Tetrachloride	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Chlorobenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Chlorodibromomethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Chloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Chloromethane	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:18	EEH
2-Chlorotoluene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
4-Chlorotoluene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.23	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2-Dibromoethane (EDB)	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Dibromomethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2-Dichlorobenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,3-Dichlorobenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,4-Dichlorobenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1	V-05	SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,1-Dichloroethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2-Dichloroethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,1-Dichloroethylene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
cis-1,2-Dichloroethylene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
trans-1,2-Dichloroethylene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2-Dichloropropane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,3-Dichloropropane	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
2,2-Dichloropropane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,1-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
cis-1,3-Dichloropropene	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
trans-1,3-Dichloropropene	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Diethyl Ether	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Diisopropyl Ether (DIPE)	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,4-Dioxane	ND	2.8	mg/Kg dry	1	V-16	SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Ethylbenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
2-Hexanone (MBK)	ND	0.56	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Isopropylbenzene (Cumene)	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Methylene Chloride	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:18	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.56	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Naphthalene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
n-Propylbenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Styrene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,1,1,2-Tetrachloroethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,1,2,2-Tetrachloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Tetrachloroethylene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Tetrahydrofuran	ND	0.23	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Toluene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2,3-Trichlorobenzene	ND	0.23	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2,4-Trichlorobenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,1,1-Trichloroethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,1,2-Trichloroethane	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Trichloroethylene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,2,4-Trimethylbenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
1,3,5-Trimethylbenzene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
Vinyl Chloride	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH
o-Xylene	ND	0.056	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:18	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	125	70-130	
Toluene-d8	110	70-130	
4-Bromofluorobenzene	99.1	70-130	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

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 8270D	7/26/12	7/28/12 2:28	CDT
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Aniline	ND	0.40	mg/Kg dry	1	L-04	SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Butylbenzylphthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
4-Chloroaniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Dimethylphthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Di-n-octylphthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

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	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 2:28	CDT
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		67.5	30-130					7/28/12 2:28	
Phenol-d6		71.0	30-130					7/28/12 2:28	
Nitrobenzene-d5		85.5	30-130					7/28/12 2:28	
2-Fluorobiphenyl		89.8	30-130					7/28/12 2:28	
2,4,6-Tribromophenol		65.4	30-130					7/28/12 2:28	
Terphenyl-d14		74.4	30-130					7/28/12 2:28	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

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	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:46	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		67.9	30-150					7/30/12 15:46	
Decachlorobiphenyl [2]		66.4	30-150					7/30/12 15:46	
Tetrachloro-m-xylene [1]		72.5	30-150					7/30/12 15:46	
Tetrachloro-m-xylene [2]		72.0	30-150					7/30/12 15:46	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unknown Hydrocarbons (C9-C36)	150	98	mg/Kg dry	10	Z-01	SW-846 8015C	7/26/12	7/28/12 13:27	SCS
Surrogates		% Recovery			Flag				
o-Terphenyl		83.1		40-140				7/28/12 13:27	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:41	OP
Barium	88	2.9	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:41	OP
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:41	OP
Chromium	39	0.58	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:41	OP
Lead	9.3	0.87	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:41	OP
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	7/26/12	7/26/12 13:08	SAJ
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:41	OP
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:41	OP

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-248/0.5-4.0ft

Sampled: 7/23/2012 09:40

Sample ID: 12G0867-02

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/27/12	7/27/12 17:00	DEF
pH @19.5°C	9.1		pH Units	1	H-03	SW-846 9045C	7/26/12	7/26/12 9:00	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/27/12	7/27/12 14:45	DEF
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/27/12	7/30/12 9:25	SBP
Specific conductance	19	2.0	µmhos/cm	1		SM18-20 2510B	7/27/12	7/27/12 20:45	DEF
% Solids	85.2		% Wt	1		SM 2540G	7/30/12	7/30/12 14:16	CMF

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.0	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Benzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Bromobenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Bromochloromethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Bromodichloromethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Bromoform	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Bromomethane	ND	0.30	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:44	EEH
2-Butanone (MEK)	ND	1.2	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
n-Butylbenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
sec-Butylbenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
tert-Butylbenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Carbon Disulfide	ND	0.60	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Carbon Tetrachloride	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Chlorobenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Chlorodibromomethane	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Chloroethane	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Chloroform	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Chloromethane	ND	0.30	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:44	EEH
2-Chlorotoluene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
4-Chlorotoluene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.24	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2-Dibromoethane (EDB)	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Dibromomethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2-Dichlorobenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,3-Dichlorobenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,4-Dichlorobenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.12	mg/Kg dry	1	V-05	SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,1-Dichloroethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2-Dichloroethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,1-Dichloroethylene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
cis-1,2-Dichloroethylene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
trans-1,2-Dichloroethylene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2-Dichloropropane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,3-Dichloropropane	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
2,2-Dichloropropane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,1-Dichloropropene	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
cis-1,3-Dichloropropene	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
trans-1,3-Dichloropropene	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Diethyl Ether	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Diisopropyl Ether (DIPE)	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,4-Dioxane	ND	3.0	mg/Kg dry	1	V-16	SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Ethylbenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
2-Hexanone (MBK)	ND	0.60	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Isopropylbenzene (Cumene)	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Methylene Chloride	ND	0.30	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 17:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.60	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Naphthalene	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
n-Propylbenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Styrene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,1,1,2-Tetrachloroethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Tetrachloroethylene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Tetrahydrofuran	ND	0.24	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Toluene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2,3-Trichlorobenzene	ND	0.24	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2,4-Trichlorobenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,1,1-Trichloroethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,1,2-Trichloroethane	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Trichloroethylene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Trichlorofluoromethane (Freon 11)	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2,3-Trichloropropane	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,2,4-Trimethylbenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
1,3,5-Trimethylbenzene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
Vinyl Chloride	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
m+p Xylene	ND	0.12	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH
o-Xylene	ND	0.060	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 17:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	123	70-130	
Toluene-d8	110	70-130	
4-Bromofluorobenzene	100	70-130	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

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 8270D	7/26/12	7/28/12 17:44	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Aniline	ND	0.38	mg/Kg dry	1	L-04	SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Anthracene	0.46	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Benzo(a)anthracene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Benzo(a)pyrene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Benzo(b)fluoranthene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Benzo(g,h,i)perylene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Benzo(k)fluoranthene	0.63	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Butylbenzylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Chrysene	1.6	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Dibenz(a,h)anthracene	0.28	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Dimethylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Di-n-octylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Fluoranthene	3.2	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Indeno(1,2,3-cd)pyrene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

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	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Phenanthrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Pyrene	3.8	0.19	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/26/12	7/28/12 17:44	CDT
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		76.4	30-130					7/28/12 17:44	
Phenol-d6		81.1	30-130					7/28/12 17:44	
Nitrobenzene-d5		89.3	30-130					7/28/12 17:44	
2-Fluorobiphenyl		90.6	30-130					7/28/12 17:44	
2,4,6-Tribromophenol		122	30-130					7/28/12 17:44	
Terphenyl-d14		123	30-130					7/28/12 17:44	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

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	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/12	7/30/12 15:59	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		71.6	30-150					7/30/12 15:59	
Decachlorobiphenyl [2]		71.9	30-150					7/30/12 15:59	
Tetrachloro-m-xylene [1]		78.4	30-150					7/30/12 15:59	
Tetrachloro-m-xylene [2]		78.0	30-150					7/30/12 15:59	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unknown Hydrocarbons (C9-C36)	130	92	mg/Kg dry	10	Z-01a	SW-846 8015C	7/26/12	7/28/12 13:45	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	86.1		40-140					7/28/12 13:45	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

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 6010C	7/26/12	7/26/12 15:46	OP
Barium	80	2.8	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:46	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:46	OP
Chromium	25	0.56	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:46	OP
Lead	24	0.84	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:46	OP
Mercury	0.044	0.028	mg/Kg dry	1		SW-846 7471B	7/26/12	7/26/12 13:10	SAJ
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:46	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C	7/26/12	7/26/12 15:46	OP

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-204/0.5-8.0ft

Sampled: 7/20/2012 11:30

Sample ID: 12G0867-03

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/27/12	7/27/12 17:30	DEF
pH @19.9°C	8.7		pH Units	1	H-03	SW-846 9045C	7/26/12	7/26/12 9:30	LL
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/27/12	7/27/12 15:30	DEF
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/27/12	7/30/12 9:25	SBP
Specific conductance	15	2.0	µmhos/cm	1		SM18-20 2510B	7/27/12	7/27/12 20:45	DEF
% Solids	89.6		% Wt	1		SM 2540G	7/30/12	7/30/12 14:16	CMF

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.5	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Benzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Bromobenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Bromochloromethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Bromodichloromethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Bromoform	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Bromomethane	ND	0.35	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 18:36	EEH
2-Butanone (MEK)	ND	1.4	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
n-Butylbenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
sec-Butylbenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
tert-Butylbenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Carbon Disulfide	ND	0.70	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Carbon Tetrachloride	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Chlorobenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Chlorodibromomethane	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Chloroethane	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Chloroform	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Chloromethane	ND	0.35	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 18:36	EEH
2-Chlorotoluene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
4-Chlorotoluene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.28	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2-Dibromoethane (EDB)	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Dibromomethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2-Dichlorobenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,3-Dichlorobenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,4-Dichlorobenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.14	mg/Kg dry	1	V-05	SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,1-Dichloroethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2-Dichloroethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,1-Dichloroethylene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
cis-1,2-Dichloroethylene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
trans-1,2-Dichloroethylene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2-Dichloropropane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,3-Dichloropropane	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
2,2-Dichloropropane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,1-Dichloropropene	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
cis-1,3-Dichloropropene	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
trans-1,3-Dichloropropene	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Diethyl Ether	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Diisopropyl Ether (DIPE)	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,4-Dioxane	ND	3.5	mg/Kg dry	1	V-16	SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Ethylbenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
2-Hexanone (MBK)	ND	0.70	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Isopropylbenzene (Cumene)	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Methylene Chloride	ND	0.35	mg/Kg dry	1	RL-07	SW-846 8260C	7/27/12	7/27/12 18:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.70	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Naphthalene	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
n-Propylbenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Styrene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,1,1,2-Tetrachloroethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,1,2,2-Tetrachloroethane	ND	0.035	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Tetrachloroethylene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Tetrahydrofuran	ND	0.28	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Toluene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2,3-Trichlorobenzene	ND	0.28	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2,4-Trichlorobenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,1,1-Trichloroethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,1,2-Trichloroethane	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Trichloroethylene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Trichlorofluoromethane (Freon 11)	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2,3-Trichloropropane	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,2,4-Trimethylbenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
1,3,5-Trimethylbenzene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
Vinyl Chloride	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH
o-Xylene	ND	0.070	mg/Kg dry	1		SW-846 8260C	7/27/12	7/27/12 18:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	125	70-130	
Toluene-d8	110	70-130	
4-Bromofluorobenzene	100	70-130	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

Sample Matrix: Soil

Sample Flags: RL-05

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Acenaphthylene	ND	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Acetophenone	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Aniline	ND	7.8	mg/Kg dry	4	L-04	SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Anthracene	8.4	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Benzo(a)anthracene	12	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Benzo(a)pyrene	10	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Benzo(b)fluoranthene	11	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Benzo(g,h,i)perylene	6.5	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Benzo(k)fluoranthene	4.8	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Bis(2-chloroethoxy)methane	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Bis(2-chloroethyl)ether	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Bis(2-chloroisopropyl)ether	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Bis(2-Ethylhexyl)phthalate	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
4-Bromophenylphenylether	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Butylbenzylphthalate	ND	15	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
4-Chloroaniline	ND	15	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2-Chloronaphthalene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2-Chlorophenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Chrysene	11	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Dibenz(a,h)anthracene	ND	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Dibenzofuran	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Di-n-butylphthalate	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
1,2-Dichlorobenzene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
1,3-Dichlorobenzene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
1,4-Dichlorobenzene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
3,3-Dichlorobenzidine	ND	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2,4-Dichlorophenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Diethylphthalate	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2,4-Dimethylphenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Dimethylphthalate	ND	15	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2,4-Dinitrophenol	ND	15	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2,4-Dinitrotoluene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2,6-Dinitrotoluene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Di-n-octylphthalate	ND	15	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Fluoranthene	27	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Fluorene	4.8	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Hexachlorobenzene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Hexachlorobutadiene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Hexachloroethane	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Indeno(1,2,3-cd)pyrene	7.2	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Isophorone	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2-Methylnaphthalene	ND	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

Sample Matrix: Soil

Sample Flags: RL-05

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
3/4-Methylphenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Naphthalene	ND	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Nitrobenzene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2-Nitrophenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
4-Nitrophenol	ND	15	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Pentachlorophenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Phenanthrene	24	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Phenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Pyrene	27	3.9	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
1,2,4-Trichlorobenzene	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2,4,5-Trichlorophenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
2,4,6-Trichlorophenol	ND	7.8	mg/Kg dry	4		SW-846 8270D	7/26/12	7/28/12 18:42	CDT
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		57.3	30-130					7/28/12 18:42	
Phenol-d6		61.1	30-130					7/28/12 18:42	
Nitrobenzene-d5		61.2	30-130					7/28/12 18:42	
2-Fluorobiphenyl		73.8	30-130					7/28/12 18:42	
2,4,6-Tribromophenol		76.3	30-130					7/28/12 18:42	
Terphenyl-d14		116	30-130					7/28/12 18:42	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

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	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/12	7/31/12 10:15	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		75.9	30-150					7/31/12 10:15	
Decachlorobiphenyl [2]		90.4	30-150					7/31/12 10:15	
Tetrachloro-m-xylene [1]		75.6	30-150					7/31/12 10:15	
Tetrachloro-m-xylene [2]		73.7	30-150					7/31/12 10:15	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unknown Hydrocarbons (C9-C36)	1000	190	mg/Kg dry	20	Z-01a	SW-846 8015C	7/30/12	8/1/12 16:30	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		87.9		40-140				8/1/12 16:30	

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

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 6010C	7/27/12	7/30/12 10:45	OP
Barium	110	2.8	mg/Kg dry	1		SW-846 6010C	7/27/12	7/30/12 10:45	OP
Cadmium	0.37	0.28	mg/Kg dry	1		SW-846 6010C	7/27/12	7/30/12 10:45	OP
Chromium	41	0.57	mg/Kg dry	1		SW-846 6010C	7/27/12	7/30/12 10:45	OP
Lead	22	0.85	mg/Kg dry	1		SW-846 6010C	7/27/12	7/30/12 10:45	OP
Mercury	0.089	0.028	mg/Kg dry	1		SW-846 7471B	7/26/12	7/26/12 13:13	SAJ
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	7/27/12	7/30/12 10:45	OP
Silver	0.61	0.57	mg/Kg dry	1		SW-846 6010C	7/27/12	7/30/12 10:45	OP

Project Location: Huron B

Sample Description:

Work Order: 12G0867

Date Received: 7/25/2012

Field Sample #: 2011140.01A/B-205/0.5-9.0ft

Sampled: 7/16/2012 13:00

Sample ID: 12G0867-05

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	7/27/12	7/27/12 19:45	DEF
pH @20.1°C	8.0		pH Units	1	H-03	SW-846 9045C	7/26/12	7/26/12 9:30	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/27/12	7/27/12 15:30	DEF
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/27/12	7/30/12 9:25	SBP
Specific conductance	45	2.0	µmhos/cm	1		SM18-20 2510B	7/27/12	7/27/12 20:45	DEF
% Solids	86.7		% Wt	1		SM 2540G	7/30/12	7/30/12 14:16	CMF

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B056002	07/30/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B056002	07/30/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B056002	07/30/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B056002	07/30/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B056002	07/30/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B056002	07/30/12

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055986	1.00	07/27/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055986	1.00	07/27/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055986	1.00	07/27/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055986	1.00	07/27/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055986	1.00	07/27/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055986	1.00	07/27/12

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055987	50.0	50.0	07/27/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055987	50.0	50.0	07/27/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055987	50.0	50.0	07/27/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055987	50.0	50.0	07/27/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055987	50.0	50.0	07/27/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055987	50.0	50.0	07/27/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055837	1.02	50.0	07/26/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055837	1.01	50.0	07/26/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055837	1.00	50.0	07/26/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055837	1.05	50.0	07/26/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055837	1.07	50.0	07/26/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055917	1.02	50.0	07/27/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055815	0.608	50.0	07/26/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055815	0.602	50.0	07/26/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055815	0.605	50.0	07/26/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055815	0.613	50.0	07/26/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055815	0.617	50.0	07/26/12

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055815	0.614	50.0	07/26/12

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055859	30.1	1.00	07/26/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055859	30.0	1.00	07/26/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055859	30.3	1.00	07/26/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055859	30.1	1.00	07/26/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055859	30.0	2.00	07/26/12

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B056020	30.0	1.00	07/30/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055949	10.1	10.0	07/27/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055949	10.1	10.0	07/27/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055949	10.2	10.0	07/27/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055949	10.0	10.0	07/27/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055949	10.0	10.0	07/27/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055949	10.0	10.0	07/27/12

Prep Method: SW-846 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055952	20.1	17.0	1	50	07/27/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055952	18.4	17.7	1	50	07/27/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055952	15.4	16.6	1	50	07/27/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055952	14.4	16.8	1	50	07/27/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055952	14.0	16.9	1	50	07/27/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055952	16.2	17.6	1	50	07/27/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055843	30.2	1.00	07/26/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055843	30.0	1.00	07/26/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055843	30.0	1.00	07/26/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055843	30.0	1.00	07/26/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055843	30.3	5.00	07/26/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055843	30.3	1.00	07/26/12

Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055977	25.6	250	07/27/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055977	25.5	250	07/27/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055977	25.0	250	07/27/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055977	25.3	250	07/27/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055977	25.6	250	07/27/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055977	25.3	250	07/27/12

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055978	25.6	250	07/27/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055978	25.5	250	07/27/12
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055978	25.0	250	07/27/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055978	25.3	250	07/27/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055978	25.6	250	07/27/12
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055978	25.3	250	07/27/12

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
12G0867-06 [2011140.01A/B-203/0.5-4.0ft]	B055879	20.0	07/26/12

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
12G0867-01 [2011140.01A/B-242/0.5-5.0ft]	B055882	20.0	07/26/12
12G0867-02 [2011140.01A/B-248/0.5-4.0ft]	B055882	20.0	07/26/12

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
12G0867-03 [2011140.01A/B-204/0.5-8.0ft]	B055883	20.0	07/26/12
12G0867-04 [2011140.01A/B-217/0.5-5.0ft]	B055883	20.0	07/26/12
12G0867-05 [2011140.01A/B-205/0.5-9.0ft]	B055883	20.0	07/26/12

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 B055952 - SW-846 5035/5030B

Blank (B055952-BLK1)

Prepared & Analyzed: 07/27/12

Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.25	mg/Kg wet							RL-07
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.50	mg/Kg wet							RL-07
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.25	mg/Kg wet							RL-07
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.20	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							RL-07
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	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 B055952 - SW-846 5035/5030B

Blank (B055952-BLK1)

Prepared & Analyzed: 07/27/12

n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.20	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.20	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0319		mg/Kg wet	0.0250		128	70-130			
Surrogate: Toluene-d8	0.0279		mg/Kg wet	0.0250		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.0246		mg/Kg wet	0.0250		98.5	70-130			

LCS (B055952-BS1)

Prepared & Analyzed: 07/27/12

Acetone	0.115	0.057	mg/Kg wet	0.113		101	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0128	0.00057	mg/Kg wet	0.0113		113	70-130			
Benzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
Bromobenzene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
Bromochloromethane	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Bromodichloromethane	0.0106	0.0011	mg/Kg wet	0.0113		93.2	70-130			
Bromoform	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Bromomethane	0.00723	0.0057	mg/Kg wet	0.0113		63.8	40-160		L-14, V-20	†
2-Butanone (MEK)	0.126	0.023	mg/Kg wet	0.113		111	40-160			†
n-Butylbenzene	0.0144	0.0011	mg/Kg wet	0.0113		127	70-130		V-20	
sec-Butylbenzene	0.0155	0.0011	mg/Kg wet	0.0113		136 *	70-130		L-06, V-20	
tert-Butylbenzene	0.0150	0.0011	mg/Kg wet	0.0113		132 *	70-130		L-07	
tert-Butyl Ethyl Ether (TBEE)	0.0130	0.00057	mg/Kg wet	0.0113		115	70-130			
Carbon Disulfide	0.0134	0.011	mg/Kg wet	0.0113		118	70-130			
Carbon Tetrachloride	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
Chlorobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Chlorodibromomethane	0.0104	0.00057	mg/Kg wet	0.0113		91.8	70-130			
Chloroethane	0.0112	0.0023	mg/Kg wet	0.0113		99.0	70-130			
Chloroform	0.0120	0.0023	mg/Kg wet	0.0113		106	70-130			
Chloromethane	0.00825	0.0057	mg/Kg wet	0.0113		72.8	40-160			†
2-Chlorotoluene	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130			
4-Chlorotoluene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0137	0.0045	mg/Kg wet	0.0113		121	70-130			
1,2-Dibromoethane (EDB)	0.0114	0.00057	mg/Kg wet	0.0113		101	70-130			
Dibromomethane	0.0109	0.0011	mg/Kg wet	0.0113		96.0	70-130			
1,2-Dichlorobenzene	0.0142	0.0011	mg/Kg wet	0.0113		126	70-130			
1,3-Dichlorobenzene	0.0144	0.0011	mg/Kg wet	0.0113		128	70-130			
1,4-Dichlorobenzene	0.0133	0.0011	mg/Kg wet	0.0113		118	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 B055952 - SW-846 5035/5030B										
LCS (B055952-BS1)										
Prepared & Analyzed: 07/27/12										
Dichlorodifluoromethane (Freon 12)	0.00600	0.0023	mg/Kg wet	0.0113		52.9	40-160			L-14, V-05 †
1,1-Dichloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2-Dichloroethane	0.0104	0.0011	mg/Kg wet	0.0113		91.9	70-130			
1,1-Dichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130			
cis-1,2-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
trans-1,2-Dichloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
1,2-Dichloropropane	0.0121	0.0011	mg/Kg wet	0.0113		106	70-130			
1,3-Dichloropropane	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130			
2,2-Dichloropropane	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
1,1-Dichloropropene	0.0125	0.0023	mg/Kg wet	0.0113		110	70-130			
cis-1,3-Dichloropropene	0.0114	0.00057	mg/Kg wet	0.0113		100	70-130			
trans-1,3-Dichloropropene	0.0123	0.00057	mg/Kg wet	0.0113		109	70-130			
Diethyl Ether	0.0135	0.0023	mg/Kg wet	0.0113		119	70-130			
Diisopropyl Ether (DIPE)	0.0137	0.00057	mg/Kg wet	0.0113		121	70-130			
1,4-Dioxane	0.118	0.057	mg/Kg wet	0.113		104	40-160			V-16 †
Ethylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Hexachlorobutadiene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
2-Hexanone (MBK)	0.125	0.011	mg/Kg wet	0.113		110	40-160			†
Isopropylbenzene (Cumene)	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130			
p-Isopropyltoluene (p-Cymene)	0.0149	0.0011	mg/Kg wet	0.0113		132 *	70-130			L-07, V-20
Methyl tert-Butyl Ether (MTBE)	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			
Methylene Chloride	0.0129	0.0057	mg/Kg wet	0.0113		113	70-130			
4-Methyl-2-pentanone (MIBK)	0.123	0.011	mg/Kg wet	0.113		108	40-160			†
Naphthalene	0.0140	0.0023	mg/Kg wet	0.0113		123	70-130			
n-Propylbenzene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
Styrene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
1,1,1,2-Tetrachloroethane	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130			
1,1,1,2,2-Tetrachloroethane	0.0130	0.00057	mg/Kg wet	0.0113		115	70-130			
Tetrachloroethylene	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130			
Tetrahydrofuran	0.0120	0.0045	mg/Kg wet	0.0113		106	70-130			
Toluene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
1,2,3-Trichlorobenzene	0.0132	0.0045	mg/Kg wet	0.0113		117	70-130			
1,2,4-Trichlorobenzene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,1,1-Trichloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
1,1,2-Trichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Trichloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0106	0.0023	mg/Kg wet	0.0113		93.8	70-130			
1,2,3-Trichloropropane	0.0129	0.0023	mg/Kg wet	0.0113		114	70-130			
1,2,4-Trimethylbenzene	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130			
1,3,5-Trimethylbenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Vinyl Chloride	0.0109	0.0023	mg/Kg wet	0.0113		96.5	70-130			
m+p Xylene	0.0256	0.0023	mg/Kg wet	0.0227		113	70-130			
o-Xylene	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0350		mg/Kg wet	0.0283		124	70-130			
Surrogate: Toluene-d8	0.0306		mg/Kg wet	0.0283		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0279		mg/Kg wet	0.0283		98.6	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 B055952 - SW-846 5035/5030B										
LCS Dup (B055952-BSD1)										
Prepared & Analyzed: 07/27/12										
Acetone	0.115	0.057	mg/Kg wet	0.113		102	40-160	0.610	20	†
tert-Amyl Methyl Ether (TAME)	0.0124	0.00057	mg/Kg wet	0.0113		110	70-130	2.97	20	
Benzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	2.26	20	
Bromobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	2.14	20	
Bromochloromethane	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130	1.44	20	
Bromodichloromethane	0.0103	0.0011	mg/Kg wet	0.0113		90.7	70-130	2.72	20	
Bromoform	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	0.781	20	
Bromomethane	0.00841	0.0057	mg/Kg wet	0.0113		74.2	40-160	15.1	20	V-20 †
2-Butanone (MEK)	0.124	0.023	mg/Kg wet	0.113		109	40-160	2.11	20	†
n-Butylbenzene	0.0144	0.0011	mg/Kg wet	0.0113		128	70-130	0.236	20	V-20
sec-Butylbenzene	0.0151	0.0011	mg/Kg wet	0.0113		133 *	70-130	2.75	20	L-06, V-20
tert-Butylbenzene	0.0144	0.0011	mg/Kg wet	0.0113		127	70-130	3.86	20	
tert-Butyl Ethyl Ether (TBEE)	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130	0.877	20	
Carbon Disulfide	0.0125	0.011	mg/Kg wet	0.0113		110	70-130	7.19	20	
Carbon Tetrachloride	0.0110	0.0011	mg/Kg wet	0.0113		97.5	70-130	3.53	20	
Chlorobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	0.178	20	
Chlorodibromomethane	0.0100	0.00057	mg/Kg wet	0.0113		88.3	70-130	3.89	20	
Chloroethane	0.0108	0.0023	mg/Kg wet	0.0113		95.0	70-130	4.12	20	
Chloroform	0.0115	0.0023	mg/Kg wet	0.0113		101	70-130	4.44	20	
Chloromethane	0.00775	0.0057	mg/Kg wet	0.0113		68.4	40-160	6.23	20	L-14 †
2-Chlorotoluene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	1.71	20	
4-Chlorotoluene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	3.42	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0146	0.0045	mg/Kg wet	0.0113		129	70-130	6.16	20	
1,2-Dibromoethane (EDB)	0.0110	0.00057	mg/Kg wet	0.0113		97.4	70-130	3.53	20	
Dibromomethane	0.0106	0.0011	mg/Kg wet	0.0113		93.7	70-130	2.42	20	
1,2-Dichlorobenzene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	3.24	20	
1,3-Dichlorobenzene	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130	2.06	20	
1,4-Dichlorobenzene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	2.67	20	
Dichlorodifluoromethane (Freon 12)	0.00577	0.0023	mg/Kg wet	0.0113		50.9	40-160	3.85	20	L-14, V-05 †
1,1-Dichloroethane	0.0121	0.0011	mg/Kg wet	0.0113		106	70-130	0.655	20	
1,2-Dichloroethane	0.0100	0.0011	mg/Kg wet	0.0113		88.6	70-130	3.66	20	
1,1-Dichloroethylene	0.0105	0.0011	mg/Kg wet	0.0113		92.8	70-130	6.57	20	
cis-1,2-Dichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130	1.21	20	
trans-1,2-Dichloroethylene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	0.681	20	
1,2-Dichloropropane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	2.47	20	
1,3-Dichloropropane	0.0113	0.00057	mg/Kg wet	0.0113		100	70-130	2.95	20	
2,2-Dichloropropane	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	4.53	20	
1,1-Dichloropropene	0.0120	0.0023	mg/Kg wet	0.0113		106	70-130	3.89	20	
cis-1,3-Dichloropropene	0.0112	0.00057	mg/Kg wet	0.0113		99.2	70-130	1.10	20	
trans-1,3-Dichloropropene	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130	6.86	20	
Diethyl Ether	0.0132	0.0023	mg/Kg wet	0.0113		117	70-130	2.29	20	
Diisopropyl Ether (DIPE)	0.0137	0.00057	mg/Kg wet	0.0113		121	70-130	0.248	20	
1,4-Dioxane	0.120	0.057	mg/Kg wet	0.113		106	40-160	1.86	20	V-16 †
Ethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	3.86	20	
Hexachlorobutadiene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	2.65	20	
2-Hexanone (MBK)	0.126	0.011	mg/Kg wet	0.113		111	40-160	0.642	20	†
Isopropylbenzene (Cumene)	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	1.72	20	
p-Isopropyltoluene (p-Cymene)	0.0145	0.0011	mg/Kg wet	0.0113		128	70-130	2.93	20	V-20
Methyl tert-Butyl Ether (MTBE)	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	0.509	20	
Methylene Chloride	0.0129	0.0057	mg/Kg wet	0.0113		114	70-130	0.615	20	
4-Methyl-2-pentanone (MIBK)	0.127	0.011	mg/Kg wet	0.113		112	40-160	3.41	20	†
Naphthalene	0.0141	0.0023	mg/Kg wet	0.0113		125	70-130	1.29	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 B055952 - SW-846 5035/5030B										
LCS Dup (B055952-BSD1)										
Prepared & Analyzed: 07/27/12										
n-Propylbenzene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	2.65	20	
Styrene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130	1.91	20	
1,1,1,2-Tetrachloroethane	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	1.25	20	
1,1,2,2-Tetrachloroethane	0.0133	0.00057	mg/Kg wet	0.0113		117	70-130	1.72	20	
Tetrachloroethylene	0.0106	0.0011	mg/Kg wet	0.0113		93.5	70-130	2.95	20	
Tetrahydrofuran	0.0124	0.0045	mg/Kg wet	0.0113		110	70-130	3.81	20	
Toluene	0.0108	0.0011	mg/Kg wet	0.0113		95.1	70-130	4.62	20	
1,2,3-Trichlorobenzene	0.0137	0.0045	mg/Kg wet	0.0113		121	70-130	3.36	20	
1,2,4-Trichlorobenzene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	2.64	20	
1,1,1-Trichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130	2.73	20	
1,1,2-Trichloroethane	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130	2.00	20	
Trichloroethylene	0.0108	0.0011	mg/Kg wet	0.0113		95.2	70-130	2.08	20	
Trichlorofluoromethane (Freon 11)	0.0106	0.0023	mg/Kg wet	0.0113		93.3	70-130	0.535	20	
1,2,3-Trichloropropane	0.0128	0.0023	mg/Kg wet	0.0113		113	70-130	1.15	20	
1,2,4-Trimethylbenzene	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	3.10	20	
1,3,5-Trimethylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130	2.38	20	
Vinyl Chloride	0.0107	0.0023	mg/Kg wet	0.0113		94.8	70-130	1.78	20	
m+p Xylene	0.0254	0.0023	mg/Kg wet	0.0227		112	70-130	0.623	20	
o-Xylene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	2.33	20	
Surrogate: 1,2-Dichloroethane-d4	0.0362		mg/Kg wet	0.0283		128	70-130			
Surrogate: Toluene-d8	0.0307		mg/Kg wet	0.0283		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0281		mg/Kg wet	0.0283		99.2	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 B055843 - SW-846 3546

Blank (B055843-BLK1)

Prepared & Analyzed: 07/26/12

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							L-04
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							V-05
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							V-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							
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
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Batch B055843 - SW-846 3546

Blank (B055843-BLK1)

Prepared & Analyzed: 07/26/12

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	3.76		mg/Kg wet	6.67		56.3	30-130			
Surrogate: Phenol-d6	3.97		mg/Kg wet	6.67		59.5	30-130			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.08		mg/Kg wet	3.33		62.3	30-130			
Surrogate: 2,4,6-Tribromophenol	3.86		mg/Kg wet	6.67		57.8	30-130			
Surrogate: Terphenyl-d14	2.41		mg/Kg wet	3.33		72.2	30-130			

LCS (B055843-BS1)

Prepared & Analyzed: 07/26/12

Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140			
Acetophenone	1.04	0.34	mg/Kg wet	1.67		62.5	40-140			
Aniline	0.647	0.34	mg/Kg wet	1.67		38.8 *	40-140			L-04
Anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140			
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140			
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Benzo(g,h,i)perylene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			V-05
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140			
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.2	40-140			
Bis(2-chloroethyl)ether	1.10	0.34	mg/Kg wet	1.67		66.0	40-140			
Bis(2-chloroisopropyl)ether	1.10	0.34	mg/Kg wet	1.67		66.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
4-Bromophenylphenylether	1.17	0.34	mg/Kg wet	1.67		70.0	40-140			
Butylbenzylphthalate	1.23	0.66	mg/Kg wet	1.67		74.1	40-140			
4-Chloroaniline	0.747	0.66	mg/Kg wet	1.67		44.8	15-140			†
2-Chloronaphthalene	0.984	0.34	mg/Kg wet	1.67		59.0	40-140			
2-Chlorophenol	1.11	0.34	mg/Kg wet	1.67		66.6	30-130			
Chrysene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140			
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140			
Dibenzofuran	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		72.9	40-140			
1,2-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140			
1,3-Dichlorobenzene	1.00	0.34	mg/Kg wet	1.67		60.3	40-140			
1,4-Dichlorobenzene	1.00	0.34	mg/Kg wet	1.67		60.0	40-140			
3,3-Dichlorobenzidine	0.967	0.17	mg/Kg wet	1.67		58.0	40-140			
2,4-Dichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130			
Diethylphthalate	1.20	0.34	mg/Kg wet	1.67		72.3	40-140			
2,4-Dimethylphenol	1.24	0.34	mg/Kg wet	1.67		74.3	30-130			
Dimethylphthalate	1.18	0.66	mg/Kg wet	1.67		70.5	40-140			
2,4-Dinitrophenol	0.542	0.66	mg/Kg wet	1.67		32.5	15-140			V-04 †
2,4-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.5	40-140			
2,6-Dinitrotoluene	1.31	0.34	mg/Kg wet	1.67		78.5	40-140			
Di-n-octylphthalate	1.13	0.66	mg/Kg wet	1.67		68.0	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.15	0.34	mg/Kg wet	1.67		69.0	40-140			
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Hexachlorobenzene	1.15	0.34	mg/Kg wet	1.67		68.8	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 B055843 - SW-846 3546

LCS (B055843-BS1)

Prepared & Analyzed: 07/26/12

Hexachlorobutadiene	1.07	0.34	mg/Kg wet	1.67		64.5	40-140			
Hexachloroethane	1.03	0.34	mg/Kg wet	1.67		61.7	40-140			
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140			
Isophorone	1.15	0.34	mg/Kg wet	1.67		69.3	40-140			
2-Methylnaphthalene	1.07	0.17	mg/Kg wet	1.67		64.5	40-140			
2-Methylphenol	1.13	0.34	mg/Kg wet	1.67		68.0	30-130			
3/4-Methylphenol	1.67	0.34	mg/Kg wet	1.67		100	30-130			
Naphthalene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		65.1	40-140			
2-Nitrophenol	1.08	0.34	mg/Kg wet	1.67		64.8	30-130			
4-Nitrophenol	1.36	0.66	mg/Kg wet	1.67		81.4	15-140			†
Pentachlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Phenanthrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140			
Phenol	1.06	0.34	mg/Kg wet	1.67		63.4	15-140			†
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
1,2,4-Trichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140			
2,4,5-Trichlorophenol	1.13	0.34	mg/Kg wet	1.67		68.0	30-130			
2,4,6-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.0	30-130			
Surrogate: 2-Fluorophenol	3.83		mg/Kg wet	6.67		57.4	30-130			
Surrogate: Phenol-d6	3.96		mg/Kg wet	6.67		59.4	30-130			
Surrogate: Nitrobenzene-d5	2.27		mg/Kg wet	3.33		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2,4,6-Tribromophenol	4.75		mg/Kg wet	6.67		71.3	30-130			
Surrogate: Terphenyl-d14	2.37		mg/Kg wet	3.33		71.1	30-130			

LCS Dup (B055843-BS1)

Prepared & Analyzed: 07/26/12

Acenaphthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	1.02	30	
Acenaphthylene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140	0.726	30	
Acetophenone	1.03	0.34	mg/Kg wet	1.67		61.9	40-140	0.900	30	
Aniline	0.639	0.34	mg/Kg wet	1.67		38.4 *	40-140	1.24	30	L-04
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140	2.58	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	0.887	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	2.28	30	
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	0.519	30	
Benzo(g,h,i)perylene	0.957	0.17	mg/Kg wet	1.67		57.4	40-140	3.02	30	V-05
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	1.73	30	
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	1.75	30	
Bis(2-chloroethyl)ether	1.10	0.34	mg/Kg wet	1.67		65.8	40-140	0.334	30	
Bis(2-chloroisopropyl)ether	1.11	0.34	mg/Kg wet	1.67		66.6	40-140	0.663	30	
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	7.35	30	
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	1.73	30	
Butylbenzylphthalate	1.31	0.66	mg/Kg wet	1.67		78.6	40-140	5.90	30	
4-Chloroaniline	0.718	0.66	mg/Kg wet	1.67		43.1	15-140	3.96	30	†
2-Chloronaphthalene	0.981	0.34	mg/Kg wet	1.67		58.9	40-140	0.237	30	
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.67		65.1	30-130	2.31	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	0.271	30	
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	3.03	30	
Dibenzofuran	1.13	0.34	mg/Kg wet	1.67		67.9	40-140	0.00	30	
Di-n-butylphthalate	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	2.87	30	
1,2-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.7	40-140	0.897	30	
1,3-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.5	40-140	5.20	30	
1,4-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140	3.44	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 B055843 - SW-846 3546										
LCS Dup (B055843-BSD1)										
Prepared & Analyzed: 07/26/12										
3,3-Dichlorobenzidine	0.910	0.17	mg/Kg wet	1.67		54.6	40-140	6.00	30	
2,4-Dichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130	0.657	30	
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.9	40-140	1.96	30	
2,4-Dimethylphenol	1.24	0.34	mg/Kg wet	1.67		74.7	30-130	0.564	30	
Dimethylphthalate	1.18	0.66	mg/Kg wet	1.67		70.9	40-140	0.509	30	
2,4-Dinitrophenol	0.530	0.66	mg/Kg wet	1.67		31.8	15-140	2.18	30	V-04 †
2,4-Dinitrotoluene	1.18	0.34	mg/Kg wet	1.67		70.5	40-140	4.11	30	
2,6-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		78.2	40-140	0.357	30	
Di-n-octylphthalate	1.39	0.66	mg/Kg wet	1.67		83.5	40-140	20.5	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.17	0.34	mg/Kg wet	1.67		70.1	40-140	1.64	30	
Fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140	1.44	30	
Fluorene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140	1.91	30	
Hexachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140	0.839	30	
Hexachlorobutadiene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	5.02	30	
Hexachloroethane	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	6.09	30	
Indeno(1,2,3-cd)pyrene	1.07	0.17	mg/Kg wet	1.67		64.5	40-140	3.32	30	
Isophorone	1.18	0.34	mg/Kg wet	1.67		70.7	40-140	2.11	30	
2-Methylnaphthalene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140	1.39	30	
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.0	30-130	2.93	30	
3/4-Methylphenol	1.64	0.34	mg/Kg wet	1.67		98.1	30-130	2.18	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.44	30	
Nitrobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	0.643	30	
2-Nitrophenol	1.10	0.34	mg/Kg wet	1.67		66.1	30-130	2.05	30	
4-Nitrophenol	1.21	0.66	mg/Kg wet	1.67		72.7	15-140	11.2	30	†
Pentachlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130	5.25	30	
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	0.623	30	
Phenol	1.05	0.34	mg/Kg wet	1.67		62.8	15-140	0.920	30	†
Pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	1.70	30	
1,2,4-Trichlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	3.74	30	
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.7	30-130	0.995	30	
2,4,6-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.2	30-130	1.78	30	
Surrogate: 2-Fluorophenol	3.72		mg/Kg wet	6.67		55.9	30-130			
Surrogate: Phenol-d6	3.81		mg/Kg wet	6.67		57.2	30-130			
Surrogate: Nitrobenzene-d5	2.31		mg/Kg wet	3.33		69.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.30		mg/Kg wet	3.33		68.9	30-130			
Surrogate: 2,4,6-Tribromophenol	4.57		mg/Kg wet	6.67		68.6	30-130			
Surrogate: Terphenyl-d14	2.39		mg/Kg wet	3.33		71.8	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B055949 - SW-846 3546

Blank (B055949-BLK1)

Prepared: 07/27/12 Analyzed: 07/30/12

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	0.185		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.3	30-150			

LCS (B055949-BS1)

Prepared: 07/27/12 Analyzed: 07/30/12

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		96.0	40-140			
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		95.0	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		94.3	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		89.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		84.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.176		mg/Kg wet	0.200		87.8	30-150			

LCS Dup (B055949-BSD1)

Prepared: 07/27/12 Analyzed: 07/30/12

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		103	40-140	7.28	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140	8.29	30	
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		96.8	40-140	1.83	30	
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		96.2	40-140	2.04	30	
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.197		mg/Kg wet	0.200		98.3	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
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Batch B055949 - SW-846 3546

Matrix Spike (B055949-MS1)

Source: 12G0867-01

Prepared: 07/27/12 Analyzed: 07/30/12

Aroclor-1016	0.17	0.11	mg/Kg dry	0.222	ND	76.0	40-140			
Aroclor-1016 [2C]	0.18	0.11	mg/Kg dry	0.222	ND	79.4	40-140			
Aroclor-1260	0.16	0.11	mg/Kg dry	0.222	ND	72.6	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.222	ND	75.0	40-140			
Surrogate: Decachlorobiphenyl	0.138		mg/Kg dry	0.222		62.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.138		mg/Kg dry	0.222		62.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg dry	0.222		66.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg dry	0.222		65.4	30-150			

Matrix Spike Dup (B055949-MSD1)

Source: 12G0867-01

Prepared: 07/27/12 Analyzed: 07/30/12

Aroclor-1016	0.20	0.11	mg/Kg dry	0.222	ND	88.8	40-140	15.6	30	
Aroclor-1016 [2C]	0.20	0.11	mg/Kg dry	0.222	ND	92.0	40-140	14.7	30	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.222	ND	85.6	40-140	16.4	30	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.222	ND	87.4	40-140	15.3	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg dry	0.222		75.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.166		mg/Kg dry	0.222		74.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg dry	0.222		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg dry	0.222		78.6	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 B055859 - SW-846 3546										
Blank (B055859-BLK1)										
Prepared: 07/26/12 Analyzed: 08/02/12										
Asphalt	ND	8.3	mg/Kg wet							
Unknown Hydrocarbons (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.59		mg/Kg wet	3.33		77.7	40-140			
LCS (B055859-BS1)										
Prepared: 07/26/12 Analyzed: 07/27/12										
Fuel Oil #2	28.0	8.3	mg/Kg wet	33.3		84.0	40-140			
Surrogate: o-Terphenyl	2.94		mg/Kg wet	3.33		88.1	40-140			
LCS Dup (B055859-BSD1)										
Prepared: 07/26/12 Analyzed: 07/27/12										
Fuel Oil #2	24.6	8.3	mg/Kg wet	33.3		73.8	40-140	12.8	25	
Surrogate: o-Terphenyl	2.69		mg/Kg wet	3.33		80.6	40-140			
Batch B056020 - SW-846 3546										
Blank (B056020-BLK1)										
Prepared: 07/30/12 Analyzed: 07/31/12										
Fuel Oil #2	ND	8.3	mg/Kg wet							
Unknown Hydrocarbons (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.78		mg/Kg wet	3.33		83.3	40-140			
LCS (B056020-BS1)										
Prepared: 07/30/12 Analyzed: 07/31/12										
Fuel Oil #2	25.7	8.3	mg/Kg wet	33.3		77.0	40-140			
Surrogate: o-Terphenyl	2.67		mg/Kg wet	3.33		80.1	40-140			
LCS Dup (B056020-BSD1)										
Prepared: 07/30/12 Analyzed: 07/31/12										
Fuel Oil #2	26.5	8.3	mg/Kg wet	33.3		79.6	40-140	3.31	25	
Surrogate: o-Terphenyl	2.82		mg/Kg wet	3.33		84.6	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B055815 - SW-846 7471

Blank (B055815-BLK1)

Prepared: 07/25/12 Analyzed: 07/26/12

Mercury ND 0.025 mg/Kg wet

LCS (B055815-BS1)

Prepared: 07/25/12 Analyzed: 07/26/12

Mercury 4.12 0.33 mg/Kg wet 3.73 110 71.7-128.3

LCS Dup (B055815-BSD1)

Prepared: 07/25/12 Analyzed: 07/26/12

Mercury 3.93 0.33 mg/Kg wet 3.73 105 71.7-128.3 4.71 30

Batch B055837 - SW-846 3050B

Blank (B055837-BLK1)

Prepared & Analyzed: 07/26/12

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 (B055837-BS1)

Prepared & Analyzed: 07/26/12

Arsenic 158 5.0 mg/Kg wet 168 94.0 83.3-117.3

Barium 202 5.0 mg/Kg wet 213 94.7 54.9-116.9

Chromium 110 1.0 mg/Kg wet 119 92.5 81.6-117.6

Lead 67.9 1.5 mg/Kg wet 76.9 88.2 81.3-118.7

Selenium 115 10 mg/Kg wet 126 90.9 80.2-120.6

Silver 36.9 1.0 mg/Kg wet 42.3 87.3 66.4-133.8

LCS (B055837-BS2)

Prepared & Analyzed: 07/26/12

Lead 0.765 0.71 mg/Kg wet 0.707 108 80-120

LCS Dup (B055837-BSD1)

Prepared & Analyzed: 07/26/12

Arsenic 167 5.0 mg/Kg wet 168 99.2 83.3-117.3 5.29 30

Barium 210 5.0 mg/Kg wet 213 98.6 54.9-116.9 4.06 30

Chromium 111 1.0 mg/Kg wet 119 92.9 81.6-117.6 0.499 30

Lead 71.8 1.5 mg/Kg wet 76.9 93.4 81.3-118.7 5.71 30

Selenium 117 10 mg/Kg wet 126 92.8 80.2-120.6 2.07 30

Silver 39.7 1.0 mg/Kg wet 42.3 93.9 66.4-133.8 7.28 30

Batch B055917 - SW-846 3050B

Blank (B055917-BLK1)

Prepared & Analyzed: 07/27/12

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B055917 - SW-846 3050B

LCS (B055917-BS1)

Prepared & Analyzed: 07/27/12

Arsenic	192	5.0	mg/Kg wet	168		114	83.3-117.3			
Barium	230	5.0	mg/Kg wet	213		108	54.9-116.9			
Cadmium	114	0.50	mg/Kg wet	103		110	83.6-115.5			
Chromium	133	1.0	mg/Kg wet	119		112	81.6-117.6			
Lead	74.7	1.5	mg/Kg wet	76.9		97.2	81.3-118.7			
Selenium	133	10	mg/Kg wet	126		105	80.2-120.6			
Silver	42.3	1.0	mg/Kg wet	42.3		100	66.4-133.8			

LCS (B055917-BS2)

Prepared & Analyzed: 07/27/12

Lead	0.668	0.70	mg/Kg wet	0.703		95.0	80-120			
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LCS Dup (B055917-BSD1)

Prepared & Analyzed: 07/27/12

Arsenic	190	5.0	mg/Kg wet	168		113	83.3-117.3	1.09	30	
Barium	234	5.0	mg/Kg wet	213		110	54.9-116.9	1.66	30	
Cadmium	114	0.50	mg/Kg wet	103		111	83.6-115.5	0.606	30	
Chromium	133	0.99	mg/Kg wet	119		112	81.6-117.6	0.319	30	
Lead	76.1	1.5	mg/Kg wet	76.9		98.9	81.3-118.7	1.80	30	
Selenium	131	9.9	mg/Kg wet	126		104	80.2-120.6	1.30	30	
Silver	42.4	0.99	mg/Kg wet	42.3		100	66.4-133.8	0.0823	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 B055879 - SW-846 9045C										
LCS (B055879-BS1)				Prepared & Analyzed: 07/26/12						
pH	6.01		pH Units	6.00		100	93.7-106			
Batch B055882 - SW-846 9045C										
LCS (B055882-BS1)				Prepared & Analyzed: 07/26/12						
pH	6.04		pH Units	6.00		101	93.7-106			
Duplicate (B055882-DUP1)		Source: 12G0867-02			Prepared & Analyzed: 07/26/12					
pH	8.8		pH Units		9.1			2.35	7.49	H-03
Batch B055883 - SW-846 9045C										
LCS (B055883-BS1)				Prepared & Analyzed: 07/26/12						
pH	6.03		pH Units	6.00		100	93.7-106			
Duplicate (B055883-DUP1)		Source: 12G0867-05			Prepared & Analyzed: 07/26/12					
pH	7.8		pH Units		8.0			2.90	7.49	H-03
Batch B055977 - SW-846 9014										
Blank (B055977-BLK1)				Prepared & Analyzed: 07/27/12						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B055977-BS1)				Prepared & Analyzed: 07/27/12						
Reactive Cyanide	9.9	0.40	mg/Kg	10.0		98.9	80.1-115			
Batch B055978 - SW-846 9030A										
Blank (B055978-BLK1)				Prepared: 07/27/12 Analyzed: 07/30/12						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B055978-BS1)				Prepared: 07/27/12 Analyzed: 07/30/12						
Reactive Sulfide	10	2.0	mg/Kg	14.8		70.3	32.9-140			
Batch B055986 - SM18-20 2510B										
Blank (B055986-BLK1)				Prepared & Analyzed: 07/27/12						
Specific conductance	ND	2.0	µmhos/cm							

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 B055986 - SM18-20 2510B										
LCS (B055986-BS1)					Prepared & Analyzed: 07/27/12					
Specific conductance	130	2.0	µmhos/cm	147		87.0	77.3-114			
Batch B055987 - SW-846 1010										
Blank (B055987-BLK1)					Prepared & Analyzed: 07/27/12					
Flashpoint	> 212 °F		°F							
LCS (B055987-BS1)					Prepared & Analyzed: 07/27/12					
Flashpoint	81		°F	81.0		99.5	98.8-101			
LCS Dup (B055987-BSD1)					Prepared & Analyzed: 07/27/12					
Flashpoint	80		°F	81.0		99.3	98.8-101	0.248	1.61	

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-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-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
RL-05	Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
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. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Sample contamination falls between C20-C36 of the hydrocarbon range but does not match any reference standard.
Z-01a	Sample contamination falls within C16-C36 of the hydrocarbon range but does not match any reference standard. The chromatogram shows the presence of PAH's.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC
Barium	CT,NH,NY,ME,NC
Cadmium	CT,NH,NY,ME,NC
Chromium	CT,NH,NY,ME,NC
Lead	CT,NH,NY,AIHA,ME,NC
Selenium	CT,NH,NY,ME,NC
Silver	CT,NH,NY,ME,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D 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
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012



CON-TEST
ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: KELENEFELDER

Address: Z15 FIRST ST. #320

City/State: CARBRIDGE, MA 02139

Attention: MARTHA ZIRBEL

Project Location: HUBCON B

Sampled By: MAT ZIRBEL

Project Proposal Provided? (for billing purposes)
 Yes No

Rev 04.06.12

Telephone: 617-497-7800

Project # 2011140.014

Client PO#

DATA DELIVERY (check all that apply)

FAX EMAIL WEBSITE

Fax # [redacted]

Email: M.zirbel@knefelder.com

Format: PDF EXCEL GIS OTHER

Collection

"Enhanced Data Package"

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Chain Code
01	2011140.014/B-242/0.5'-5.0'	7/23/12	12:00	X	X	V	
02	2011140.014/B-240/0.5'-4.0'	7/23/12	9:40	X	X	V	
03	2011140.014/B-204/0.5'-8.0'	7/20/12	11:30	X	X	V	
04	2011140.014/B-217/0.5'-5.0'	7/24/12	10:00	X	X	V	
05	2011140.014/B-205/0.5'-9.0'	7/16/12	13:00	X	X	U	
06	2011140.014/B-203/0.5'-4.0'	7/25/12	9:00	X	X	U	

Turnaround	Detection Limit Requirements
<input checked="" type="checkbox"/> 7-Day	Massachusetts:
<input type="checkbox"/> 10-Day	Connecticut:
<input type="checkbox"/> Other	Other:

2	1	ANALYSIS REQUESTED
X	X	SVOLTS/H/PCRB/CON/PH/ROD
X	X	DCS (0260)

# of Containers	** Preservation	*** Container Code	Dissolved Metals
			<input type="radio"/> Field Filtered <input type="radio"/> Lab to Filter

Comments: PLEASE RUN TCLP for coms over 1120'

* SAMPLE # B-205 has only 1 Amber Jar

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

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

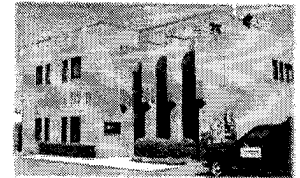
Is your project MCP or RCP?

- MCP Form Required
- RCP Form Required
- MA State DW Form Required
- PWSID # _____

NECAC & AIHA-LAP, LLC
Accredited
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.

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



Sample Receipt Checklist

CLIENT NAME: Klein Felter RECEIVED BY: WF DATE: 2/25/12

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

2) Does the chain agree with the samples? Yes No
 If not, explain:

3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.9

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

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

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

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

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

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

Containers received at Con-Test

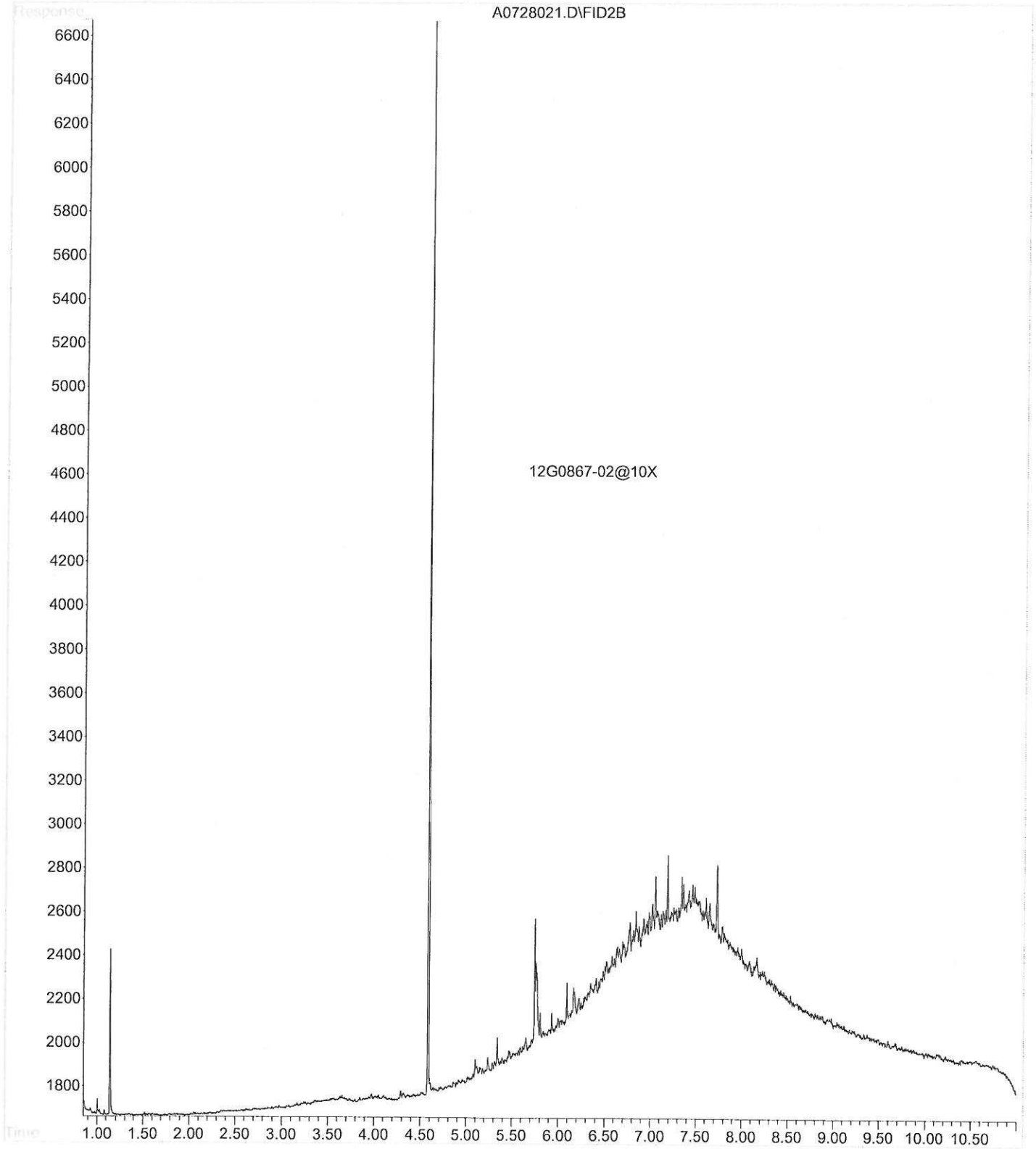
	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> /clear jar	<u>11</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>6</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

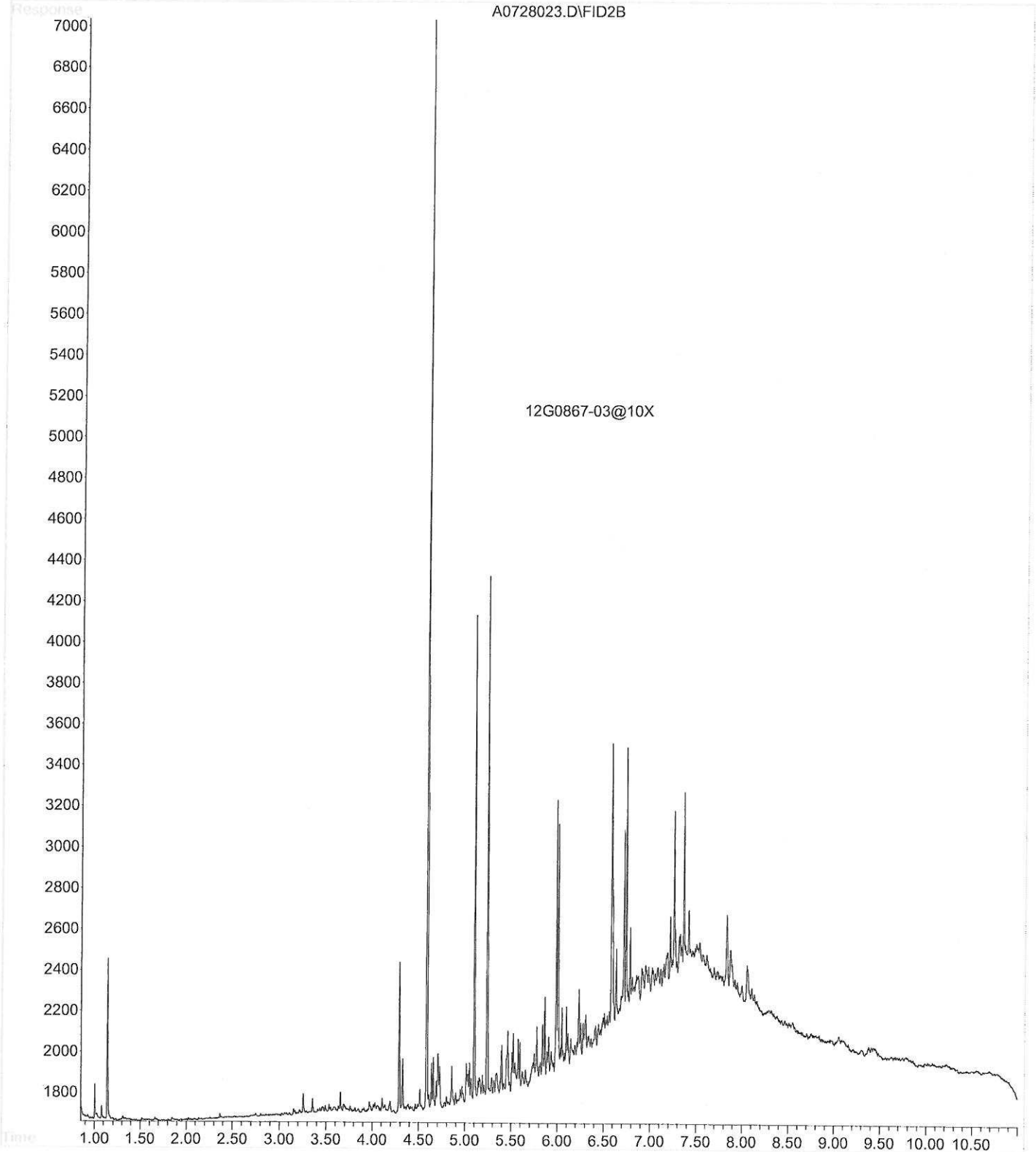
40 mL vials: # HCl _____ # Methanol 6
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

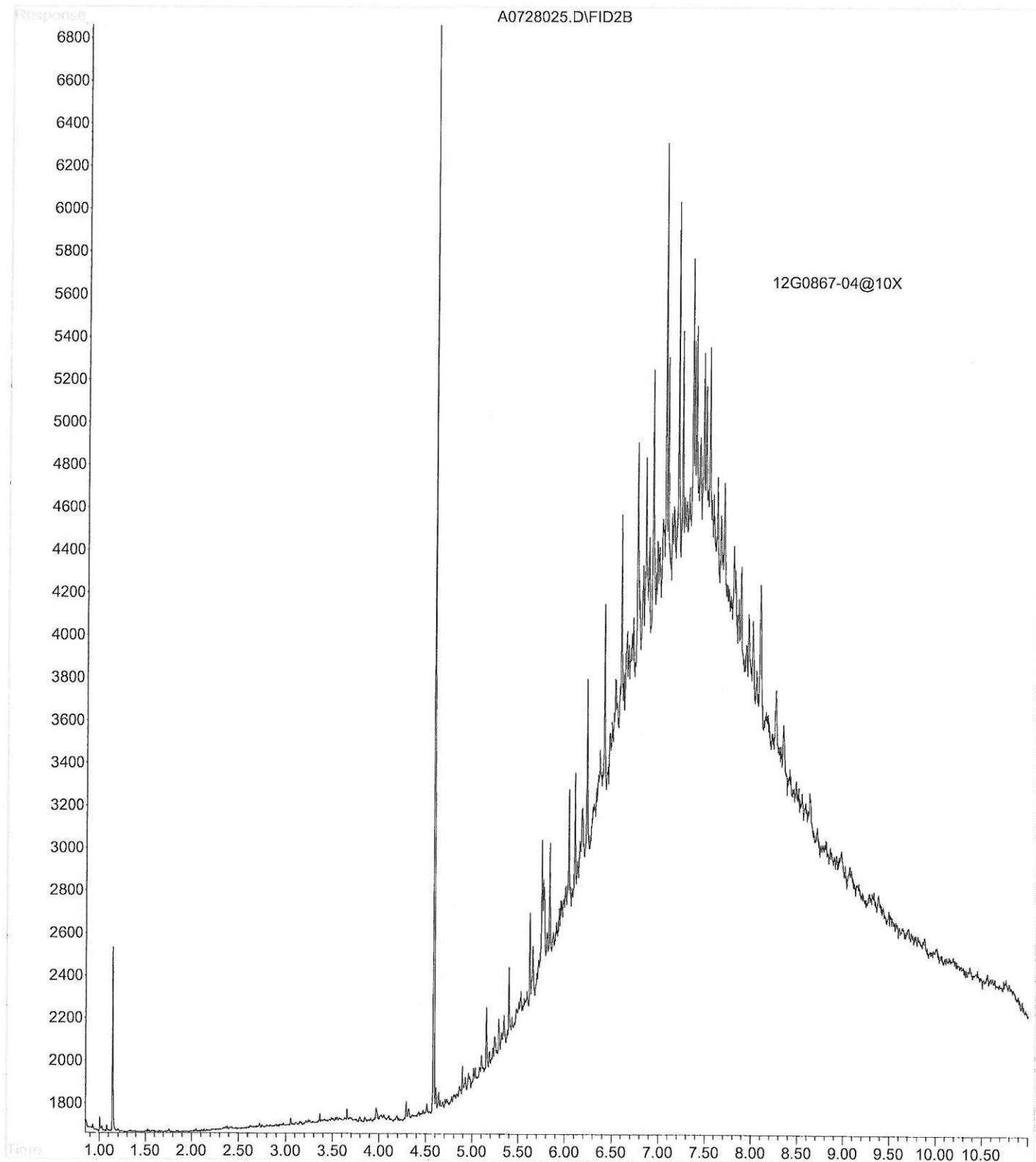
File : D:\HPCHEM\1\DATA\A072812.SEC\A0728021.D
Operator :
Acquired : 28 Jul 2012 1:27 pm using AcqMethod ETPH06.M
Instrument : 5890DFID
Sample Name: 12G0867-02@10X
Misc Info :
Vial Number: 19



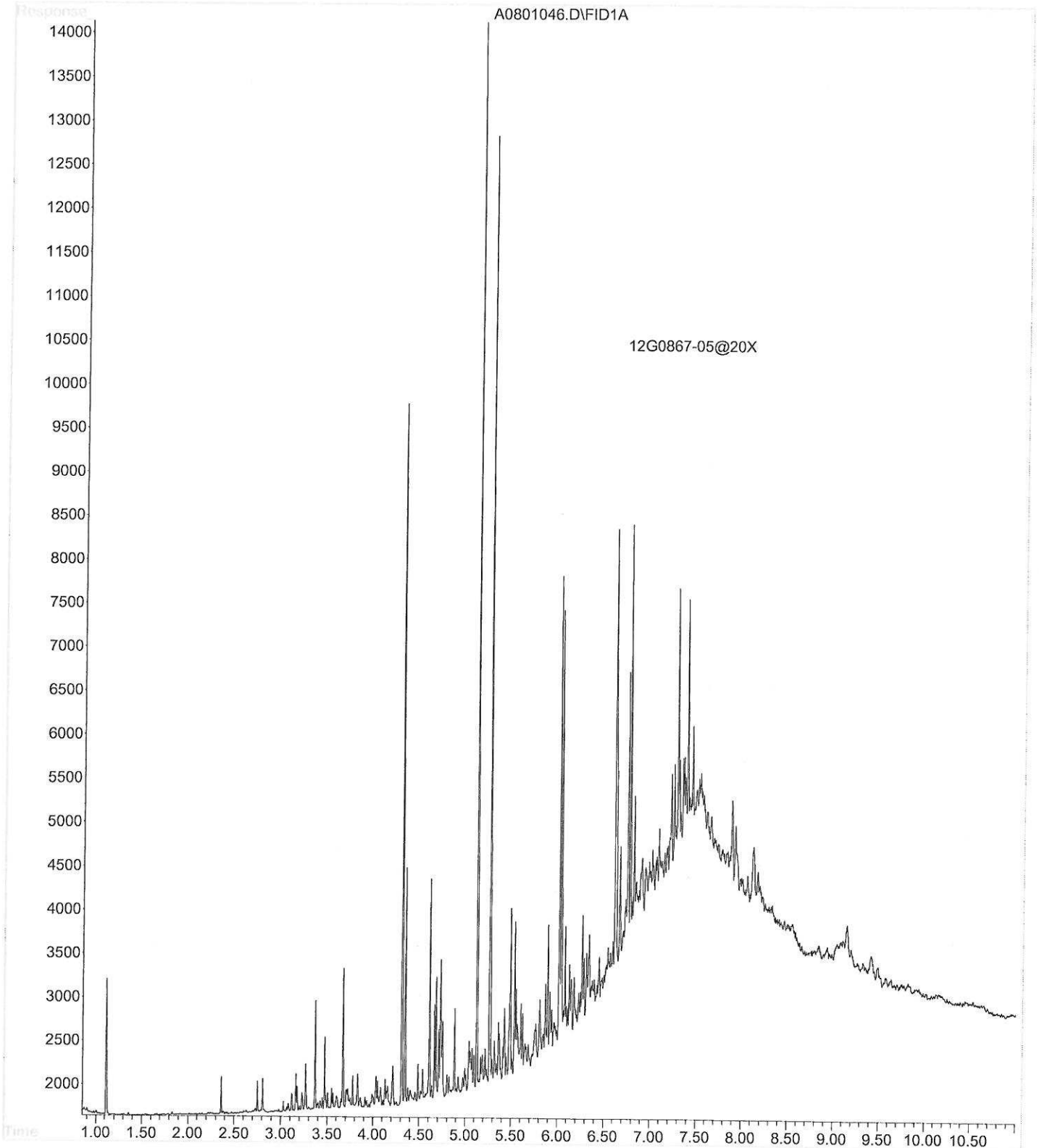
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Operator :
Acquired : 28 Jul 2012 1:45 pm using AcqMethod ETPH06.M
Instrument : 5890DFID
Sample Name: 12G0867-03@10X
Misc Info :
Vial Number: 21



File : D:\HPCHEM\1\DATA\A072812.SEC\A0728025.D
Operator :
Acquired : 28 Jul 2012 2:03 pm using AcqMethod ETPH06.M
Instrument : 5890DFID
Sample Name: 12G0867-04@10X
Misc Info :
Vial Number: 23



File : D:\HPCHEM\1\DATA\A080112\A0801046.D
Operator : SCS
Acquired : 1 Aug 2012 4:30 pm using AcqMethod ETPH06.M
Instrument : 5890DFID
Sample Name: 12G0867-05@20X
Misc Info :
Vial Number: 38



January 7, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge, Concord Ave.
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 12L0785

Enclosed are results of analyses for samples received by the laboratory on December 24, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager



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

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 1/7/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0785

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

PROJECT LOCATION: Cambridge, Concord Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B340-0-2	12L0785-01	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
B326-0-3	12L0785-02	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
B338-0-4	12L0785-03	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	

Kleinfelder/SEA - Cambridge, MA
 215 First Street, Suite 320
 Cambridge, MA 02142
 ATTN: Martha Zirbel

REPORT DATE: 1/7/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0785

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

PROJECT LOCATION: Cambridge, Concord Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B335-0-11	12L0785-04	Soil		SM 2540G SM18-20 2510B SW-846 1010 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8270D SW-846 9014 SW-846 9030A	
B335-9-10	12L0785-05	Soil		SM 2540G SW-846 8260C	

CASE NARRATIVE SUMMARY

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

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

SW-846 6010C

Qualifications:

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side.

Analyte & Samples(s) Qualified:

Lead
12L0785-01[B340-0-2], 12L0785-02[B326-0-3], 12L0785-03[B338-0-4], 12L0785-04[B335-0-11], B065276-MRL1

SW-846 8015C

Qualifications:

Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.

Analyte & Samples(s) Qualified:

Asphalt
12L0785-01[B340-0-2], 12L0785-02[B326-0-3]

Sample contamination does not match any reference standard but most of the contamination falls within the C20-C36 hydrocarbon range. The chromatogram also shows the presence of PAH's.

Analyte & Samples(s) Qualified:

TPH (C9-C36)
12L0785-03[B338-0-4], 12L0785-04[B335-0-11]

SW-846 8082A

Qualifications:

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

Analyte & Samples(s) Qualified:

12L0785-01[B340-0-2], 12L0785-02[B326-0-3], 12L0785-03[B338-0-4], 12L0785-04[B335-0-11]

SW-846 8260C

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12), Diisopropyl Ether (DIPE)
B065318-BS1, B065318-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:

Dichlorodifluoromethane (Freon 12)
B065318-BSD1

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

Analyte & Samples(s) Qualified:

Naphthalene
12L0785-01[B340-0-2], 12L0785-02[B326-0-3], 12L0785-03[B338-0-4], 12L0785-05[B335-9-10], B065318-BLK1, B065318-BS1, B065318-BSD1

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

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane, Tetrahydrofuran

12L0785-01[B340-0-2], 12L0785-02[B326-0-3], 12L0785-03[B338-0-4], 12L0785-05[B335-9-10], B065318-BLK1, B065318-BS1, B065318-BSD1

SW-846 8270D

Qualifications:

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

12L0785-02[B326-0-3]

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:

3/4-Methylphenol, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

B065266-BS1, B065266-BSD1

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol, Terphenyl-d14

B065266-BS1, B065266-BSD1, B065266-BLK1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrotoluene

B065266-BS1, B065266-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:

2,4-Dinitrotoluene, Benzo(g,h,i)perylene

B065266-BLK1, 12L0785-01[B340-0-2], 12L0785-02[B326-0-3], 12L0785-03[B338-0-4], 12L0785-04[B335-0-11]

SW-846 8260C

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

SW-846 8270D

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: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Benzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Bromobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Bromochloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Bromodichloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Bromoform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Bromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
2-Butanone (MEK)	ND	0.056	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
n-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
sec-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
tert-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Carbon Disulfide	ND	0.0084	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Carbon Tetrachloride	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Chlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Chloroform	ND	0.0056	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Chloromethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
2-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
4-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Dibromomethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,3-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,4-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,1-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,1-Dichloroethylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
cis-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
trans-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
2,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,1-Dichloropropene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Diethyl Ether	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Diisopropyl Ether (DIPE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,4-Dioxane	ND	0.14	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Ethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
2-Hexanone (MBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Isopropylbenzene (Cumene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0056	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Naphthalene	ND	0.0056	mg/Kg dry	1	V-05	SW-846 8260C	12/26/12	12/26/12 8:37	MFF
n-Propylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Styrene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Tetrachloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Toluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2,4-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,1,1-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,1,2-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Trichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2,3-Trichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,2,4-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
1,3,5-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
m+p Xylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF
o-Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 8:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	104	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

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 8270D	12/26/12	12/27/12 14:36	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1	V-20	SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Bis(2-Ethylhexyl)phthalate	1.8	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Butylbenzylphthalate	ND	0.78	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
4-Chloroaniline	ND	0.78	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Dimethylphthalate	ND	0.78	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Di-n-octylphthalate	ND	0.78	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

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	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 14:36	CMR

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	88.7	30-130	
Phenol-d6	98.0	30-130	
Nitrobenzene-d5	82.8	30-130	
2-Fluorobiphenyl	101	30-130	
2,4,6-Tribromophenol	93.0	30-130	
Terphenyl-d14	66.8	30-130	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 14:56	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		71.4	30-150					12/27/12 14:56	
Decachlorobiphenyl [2]		63.0	30-150					12/27/12 14:56	
Tetrachloro-m-xylene [1]		55.0	30-150					12/27/12 14:56	
Tetrachloro-m-xylene [2]		58.6	30-150					12/27/12 14:56	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Asphalt	67	9.8	mg/Kg dry	1	O-26	SW-846 8015C	12/26/12	1/2/13 12:12	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	64.0		40-140					1/2/13 12:12	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

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 6010C	12/26/12	12/27/12 17:11	KSH
Barium	62	2.7	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:11	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:11	KSH
Chromium	34	0.55	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:11	KSH
Lead	11	0.82	mg/Kg dry	1	L-10	SW-846 6010C	12/26/12	12/27/12 17:11	KSH
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	12/26/12	12/27/12 11:11	SAJ
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:11	KSH
Silver	0.55	0.55	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:11	KSH

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B340-0-2

Sampled: 12/20/2012 09:00

Sample ID: 12L0785-01

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	1/4/13	1/4/13 14:45	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	12/27/12	12/27/12 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	12/27/12	12/27/12 11:30	LL
Specific conductance	4.3	2.0	µmhos/cm	1		SM18-20 2510B	12/27/12	12/27/12 15:30	CM
% Solids	84.6		% Wt	1		SM 2540G	12/26/12	12/26/12 22:15	AJA

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B326-0-3

Sampled: 12/20/2012 11:30

Sample ID: 12L0785-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.19	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Benzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Bromobenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Bromochloromethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Bromodichloromethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Bromoform	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Bromomethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
2-Butanone (MEK)	ND	0.077	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
n-Butylbenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
sec-Butylbenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
tert-Butylbenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Carbon Disulfide	ND	0.012	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Carbon Tetrachloride	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Chlorobenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Chlorodibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Chloroform	ND	0.0077	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Chloromethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
2-Chlorotoluene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
4-Chlorotoluene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0039	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Dibromomethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2-Dichlorobenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,3-Dichlorobenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,4-Dichlorobenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,1-Dichloroethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2-Dichloroethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,1-Dichloroethylene	ND	0.0077	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
cis-1,2-Dichloroethylene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
trans-1,2-Dichloroethylene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2-Dichloropropane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,3-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
2,2-Dichloropropane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,1-Dichloropropene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
cis-1,3-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
trans-1,3-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Diisopropyl Ether (DIPE)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,4-Dioxane	ND	0.19	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Ethylbenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B326-0-3

Sampled: 12/20/2012 11:30

Sample ID: 12L0785-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
2-Hexanone (MBK)	ND	0.039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Isopropylbenzene (Cumene)	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Naphthalene	ND	0.0077	mg/Kg dry	1	V-05	SW-846 8260C	12/26/12	12/26/12 9:08	MFF
n-Propylbenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Styrene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Tetrachloroethylene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Tetrahydrofuran	ND	0.019	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Toluene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2,3-Trichlorobenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2,4-Trichlorobenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,1,1-Trichloroethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,1,2-Trichloroethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Trichloroethylene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2,3-Trichloropropane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,2,4-Trimethylbenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
1,3,5-Trimethylbenzene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
Vinyl Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
m+p Xylene	ND	0.0077	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF
o-Xylene	ND	0.0039	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	90.4	70-130	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B326-0-3

Sampled: 12/20/2012 11:30

Sample ID: 12L0785-02

Sample Matrix: Soil

Sample Flags: DL-03

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Acenaphthylene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Acetophenone	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Aniline	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Anthracene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Benzo(a)anthracene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Benzo(a)pyrene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Benzo(b)fluoranthene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Benzo(g,h,i)perylene	ND	0.73	mg/Kg dry	2	V-20	SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Benzo(k)fluoranthene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Bis(2-chloroethoxy)methane	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Bis(2-chloroethyl)ether	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Bis(2-chloroisopropyl)ether	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Bis(2-Ethylhexyl)phthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
4-Bromophenylphenylether	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Butylbenzylphthalate	ND	2.8	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
4-Chloroaniline	ND	2.8	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2-Chloronaphthalene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2-Chlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Chrysene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Dibenz(a,h)anthracene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Dibenzofuran	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Di-n-butylphthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
1,2-Dichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
1,3-Dichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
1,4-Dichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
3,3-Dichlorobenzidine	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2,4-Dichlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Diethylphthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2,4-Dimethylphenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Dimethylphthalate	ND	2.8	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2,4-Dinitrophenol	ND	2.8	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2,4-Dinitrotoluene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2,6-Dinitrotoluene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Di-n-octylphthalate	ND	2.8	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Fluoranthene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Fluorene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Hexachlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Hexachlorobutadiene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Hexachloroethane	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Indeno(1,2,3-cd)pyrene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Isophorone	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2-Methylnaphthalene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR



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

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B326-0-3

Sampled: 12/20/2012 11:30

Sample ID: 12L0785-02

Sample Matrix: Soil

Sample Flags: DL-03

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
3/4-Methylphenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Naphthalene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Nitrobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2-Nitrophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
4-Nitrophenol	ND	2.8	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Pentachlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Phenanthrene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Phenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
Pyrene	ND	0.73	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
1,2,4-Trichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2,4,5-Trichlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR
2,4,6-Trichlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	12/26/12	12/27/12 15:03	CMR

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	80.0	30-130	
Phenol-d6	88.2	30-130	
Nitrobenzene-d5	79.7	30-130	
2-Fluorobiphenyl	91.0	30-130	
2,4,6-Tribromophenol	80.8	30-130	
Terphenyl-d14	63.0	30-130	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B326-0-3

Sampled: 12/20/2012 11:30

Sample ID: 12L0785-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:08	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		93.6	30-150					12/27/12 15:08	
Decachlorobiphenyl [2]		84.1	30-150					12/27/12 15:08	
Tetrachloro-m-xylene [1]		76.0	30-150					12/27/12 15:08	
Tetrachloro-m-xylene [2]		80.9	30-150					12/27/12 15:08	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B326-0-3

Sampled: 12/20/2012 11:30

Sample ID: 12L0785-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Asphalt	160	89	mg/Kg dry	10	O-26	SW-846 8015C	12/26/12	1/2/13 12:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	71.4		40-140					1/2/13 12:29	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Sampled: 12/20/2012 11:30

Field Sample #: B326-0-3

Sample ID: 12L0785-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.0	2.7	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:16	KSH
Barium	25	2.7	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:16	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:16	KSH
Chromium	15	0.54	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:16	KSH
Lead	11	0.80	mg/Kg dry	1	L-10	SW-846 6010C	12/26/12	12/27/12 17:16	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	12/26/12	12/27/12 11:13	SAJ
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:16	KSH
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:16	KSH

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B326-0-3

Sampled: 12/20/2012 11:30

Sample ID: 12L0785-02

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	1/2/13	1/2/13 16:30	CM
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	12/27/12	12/27/12 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	12/27/12	12/27/12 11:30	LL
Specific conductance	4.3	2.0	µmhos/cm	1		SM18-20 2510B	12/27/12	12/27/12 15:30	CM
% Solids	93.3		% Wt	1		SM 2540G	12/26/12	12/26/12 22:15	AJA

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Bromomethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Carbon Disulfide	ND	0.0051	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Chlorodibromomethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Chloroethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Chloromethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,3-Dichloropropane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
cis-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
trans-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Diethyl Ether	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Diisopropyl Ether (DIPE)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,4-Dioxane	ND	0.085	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Methylene Chloride	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1	V-05	SW-846 8260C	12/26/12	12/26/12 9:36	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Tetrahydrofuran	ND	0.0085	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
Vinyl Chloride	ND	0.0085	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 9:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	97.6	70-130	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

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 8270D	12/26/12	12/27/12 15:30	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Benzo(a)anthracene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Benzo(a)pyrene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Benzo(b)fluoranthene	0.46	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1	V-20	SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Butylbenzylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Chrysene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Dimethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Di-n-octylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Fluoranthene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

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	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Phenanthrene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Pyrene	0.41	0.19	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:30	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		96.4	30-130					12/27/12 15:30	
Phenol-d6		103	30-130					12/27/12 15:30	
Nitrobenzene-d5		86.1	30-130					12/27/12 15:30	
2-Fluorobiphenyl		112	30-130					12/27/12 15:30	
2,4,6-Tribromophenol		96.9	30-130					12/27/12 15:30	
Terphenyl-d14		70.8	30-130					12/27/12 15:30	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:20	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		59.3	30-150					12/27/12 15:20	
Decachlorobiphenyl [2]		55.9	30-150					12/27/12 15:20	
Tetrachloro-m-xylene [1]		50.4	30-150					12/27/12 15:20	
Tetrachloro-m-xylene [2]		53.7	30-150					12/27/12 15:20	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	26	9.2	mg/Kg dry	1	Z-01	SW-846 8015C	12/26/12	1/2/13 12:12	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	72.5		40-140					1/2/13 12:12	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.0	2.7	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:21	KSH
Barium	21	2.7	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:21	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:21	KSH
Chromium	14	0.54	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:21	KSH
Lead	4.4	0.82	mg/Kg dry	1	L-10	SW-846 6010C	12/26/12	12/27/12 17:21	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	12/26/12	12/27/12 11:14	SAJ
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:21	KSH
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:21	KSH

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B338-0-4

Sampled: 12/20/2012 14:00

Sample ID: 12L0785-03

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
Flashpoint	110		°F	1		SW-846 1010	1/2/13	1/2/13 16:30	CM
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	12/27/12	12/27/12 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	12/27/12	12/27/12 11:30	LL
Specific conductance	11	2.0	µmhos/cm	1		SM18-20 2510B	12/27/12	12/27/12 15:30	CM
% Solids	90.4		% Wt	1		SM 2540G	12/26/12	12/26/12 22:15	AJA

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B335-0-11

Sampled: 12/21/2012 09:30

Sample ID: 12L0785-04

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 8270D	12/26/12	12/27/12 15:57	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1	V-20	SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Butylbenzylphthalate	ND	0.76	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
4-Chloroaniline	ND	0.76	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Dimethylphthalate	ND	0.76	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Di-n-octylphthalate	ND	0.76	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Sampled: 12/21/2012 09:30

Field Sample #: B335-0-11

Sample ID: 12L0785-04

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	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	12/26/12	12/27/12 15:57	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		88.5	30-130					12/27/12 15:57	
Phenol-d6		97.4	30-130					12/27/12 15:57	
Nitrobenzene-d5		78.6	30-130					12/27/12 15:57	
2-Fluorobiphenyl		90.7	30-130					12/27/12 15:57	
2,4,6-Tribromophenol		94.3	30-130					12/27/12 15:57	
Terphenyl-d14		65.4	30-130					12/27/12 15:57	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B335-0-11

Sampled: 12/21/2012 09:30

Sample ID: 12L0785-04

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/26/12	12/27/12 15:33	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		75.1	30-150					12/27/12 15:33	
Decachlorobiphenyl [2]		70.9	30-150					12/27/12 15:33	
Tetrachloro-m-xylene [1]		63.6	30-150					12/27/12 15:33	
Tetrachloro-m-xylene [2]		66.9	30-150					12/27/12 15:33	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Sampled: 12/21/2012 09:30

Field Sample #: B335-0-11

Sample ID: 12L0785-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	29	9.6	mg/Kg dry	1	Z-01	SW-846 8015C	12/26/12	1/2/13 12:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	67.0		40-140					1/2/13 12:29	

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Sampled: 12/21/2012 09:30

Field Sample #: B335-0-11

Sample ID: 12L0785-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.3	2.8	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:26	KSH
Barium	29	2.8	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:26	KSH
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:26	KSH
Chromium	14	0.57	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:26	KSH
Lead	8.5	0.85	mg/Kg dry	1	L-10	SW-846 6010C	12/26/12	12/27/12 17:26	KSH
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	12/26/12	12/27/12 11:16	SAJ
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:26	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	12/26/12	12/27/12 17:26	KSH

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Sampled: 12/21/2012 09:30

Field Sample #: B335-0-11

Sample ID: 12L0785-04

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
Flashpoint	110		°F	1		SW-846 1010	1/2/13	1/2/13 16:30	CM
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	12/27/12	12/27/12 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	12/27/12	12/27/12 11:30	LL
Specific conductance	2.7	2.0	µmhos/cm	1		SM18-20 2510B	12/27/12	12/27/12 15:30	CM
% Solids	86.6		% Wt	1		SM 2540G	12/26/12	12/26/12 22:15	AJA

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B335-9-10

Sampled: 12/21/2012 10:00

Sample ID: 12L0785-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Bromomethane	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Carbon Disulfide	ND	0.0054	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Chlorodibromomethane	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Chloroethane	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Chloromethane	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2-Dibromoethane (EDB)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,3-Dichloropropane	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
cis-1,3-Dichloropropene	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
trans-1,3-Dichloropropene	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Diethyl Ether	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Diisopropyl Ether (DIPE)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,4-Dioxane	ND	0.091	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Field Sample #: B335-9-10

Sampled: 12/21/2012 10:00

Sample ID: 12L0785-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Methylene Chloride	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Naphthalene	ND	0.0036	mg/Kg dry	1	V-05	SW-846 8260C	12/26/12	12/26/12 10:30	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Tetrahydrofuran	ND	0.0091	mg/Kg dry	1	V-16	SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
Vinyl Chloride	ND	0.0091	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	12/26/12	12/26/12 10:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	99.3	70-130	12/26/12 10:30
Toluene-d8	102	70-130	12/26/12 10:30
4-Bromofluorobenzene	99.3	70-130	12/26/12 10:30

Project Location: Cambridge, Concord Ave.

Sample Description:

Work Order: 12L0785

Date Received: 12/24/2012

Sampled: 12/21/2012 10:00

Field Sample #: B335-9-10

Sample ID: 12L0785-05

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	88.6		% Wt	1		SM 2540G	12/26/12	12/26/12 22:15	AJA

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12L0785-01 [B340-0-2]	B065265	12/26/12
12L0785-02 [B326-0-3]	B065265	12/26/12
12L0785-03 [B338-0-4]	B065265	12/26/12
12L0785-04 [B335-0-11]	B065265	12/26/12
12L0785-05 [B335-9-10]	B065265	12/26/12

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
12L0785-01 [B340-0-2]	B065387	1.00	12/27/12
12L0785-02 [B326-0-3]	B065387	1.00	12/27/12
12L0785-03 [B338-0-4]	B065387	1.00	12/27/12
12L0785-04 [B335-0-11]	B065387	1.00	12/27/12

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-02 [B326-0-3]	B065556	50.0	50.0	01/02/13
12L0785-03 [B338-0-4]	B065556	50.0	50.0	01/02/13
12L0785-04 [B335-0-11]	B065556	50.0	50.0	01/02/13

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065753	50.0	50.0	01/04/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065276	1.08	50.0	12/26/12
12L0785-02 [B326-0-3]	B065276	1.00	50.0	12/26/12
12L0785-03 [B338-0-4]	B065276	1.02	50.0	12/26/12
12L0785-04 [B335-0-11]	B065276	1.01	50.0	12/26/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065275	0.618	50.0	12/26/12
12L0785-02 [B326-0-3]	B065275	0.603	50.0	12/26/12
12L0785-03 [B338-0-4]	B065275	0.615	50.0	12/26/12
12L0785-04 [B335-0-11]	B065275	0.607	50.0	12/26/12

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065268	30.0	1.00	12/26/12
12L0785-02 [B326-0-3]	B065268	30.1	1.00	12/26/12

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-03 [B338-0-4]	B065268	30.0	1.00	12/26/12
12L0785-04 [B335-0-11]	B065268	30.0	1.00	12/26/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065267	10.2	10.0	12/26/12
12L0785-02 [B326-0-3]	B065267	10.3	10.0	12/26/12
12L0785-03 [B338-0-4]	B065267	10.1	10.0	12/26/12
12L0785-04 [B335-0-11]	B065267	10.0	10.0	12/26/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065318	4.24	10.0	12/26/12
12L0785-02 [B326-0-3]	B065318	2.77	10.0	12/26/12
12L0785-03 [B338-0-4]	B065318	6.52	10.0	12/26/12
12L0785-05 [B335-9-10]	B065318	6.23	10.0	12/26/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065266	30.0	1.00	12/26/12
12L0785-02 [B326-0-3]	B065266	30.0	2.00	12/26/12
12L0785-03 [B338-0-4]	B065266	30.2	1.00	12/26/12
12L0785-04 [B335-0-11]	B065266	30.1	1.00	12/26/12

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065358	25.3	250	12/27/12
12L0785-02 [B326-0-3]	B065358	25.6	250	12/27/12
12L0785-03 [B338-0-4]	B065358	25.2	250	12/27/12
12L0785-04 [B335-0-11]	B065358	25.2	250	12/27/12

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0785-01 [B340-0-2]	B065359	25.3	250	12/27/12
12L0785-02 [B326-0-3]	B065359	25.6	250	12/27/12
12L0785-03 [B338-0-4]	B065359	25.2	250	12/27/12
12L0785-04 [B335-0-11]	B065359	25.2	250	12/27/12

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 B065318 - SW-846 5035

Blank (B065318-BLK1)

Prepared & Analyzed: 12/26/12

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	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B065318 - SW-846 5035

Blank (B065318-BLK1)

Prepared & Analyzed: 12/26/12

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	0.0518		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0511		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0508		mg/Kg wet	0.0500		102	70-130			

LCS (B065318-BS1)

Prepared & Analyzed: 12/26/12

Acetone	0.215	0.10	mg/Kg wet	0.200		108	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130			
Benzene	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130			
Bromobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Bromochloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130			
Bromoform	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
Bromomethane	0.0174	0.010	mg/Kg wet	0.0200		87.2	40-160			†
2-Butanone (MEK)	0.219	0.040	mg/Kg wet	0.200		110	40-160			†
n-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
sec-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130			
Carbon Disulfide	0.0190	0.0060	mg/Kg wet	0.0200		95.0	70-130			
Carbon Tetrachloride	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Chlorodibromomethane	0.0180	0.0010	mg/Kg wet	0.0200		90.0	70-130			
Chloroethane	0.0187	0.010	mg/Kg wet	0.0200		93.3	70-130			
Chloroform	0.0218	0.0040	mg/Kg wet	0.0200		109	70-130			
Chloromethane	0.0191	0.010	mg/Kg wet	0.0200		95.7	40-160			†
2-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
4-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			V-16
1,2-Dibromoethane (EDB)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Dibromomethane	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,2-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	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 B065318 - SW-846 5035										
LCS (B065318-BS1)										
Prepared & Analyzed: 12/26/12										
Dichlorodifluoromethane (Freon 12)	0.00792	0.010	mg/Kg wet	0.0200		39.6 *	40-160			L-07 †
1,1-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,2-Dichloroethane	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130			
1,1-Dichloroethylene	0.0191	0.0040	mg/Kg wet	0.0200		95.3	70-130			
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
trans-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichloropropane	0.0192	0.0010	mg/Kg wet	0.0200		95.8	70-130			
2,2-Dichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.4	70-130			
trans-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130			
Diethyl Ether	0.0191	0.010	mg/Kg wet	0.0200		95.7	70-130			
Diisopropyl Ether (DIPE)	0.0258	0.0010	mg/Kg wet	0.0200		129	70-130			
1,4-Dioxane	0.170	0.10	mg/Kg wet	0.200		85.1	40-160			V-16 †
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Hexachlorobutadiene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
2-Hexanone (MBK)	0.204	0.020	mg/Kg wet	0.200		102	40-160			†
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
p-Isopropyltoluene (p-Cymene)	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0221	0.0040	mg/Kg wet	0.0200		110	70-130			
Methylene Chloride	0.0232	0.010	mg/Kg wet	0.0200		116	70-130			
4-Methyl-2-pentanone (MIBK)	0.211	0.020	mg/Kg wet	0.200		105	40-160			†
Naphthalene	0.0181	0.0040	mg/Kg wet	0.0200		90.3	70-130			V-05
n-Propylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1,2-Tetrachloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,1,2,2-Tetrachloroethane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
Tetrachloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Tetrahydrofuran	0.0195	0.010	mg/Kg wet	0.0200		97.5	70-130			V-16
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
1,2,3-Trichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
1,1,1-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Trichlorofluoromethane (Freon 11)	0.0168	0.010	mg/Kg wet	0.0200		84.0	70-130			
1,2,3-Trichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,2,4-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,3,5-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Vinyl Chloride	0.0158	0.010	mg/Kg wet	0.0200		78.8	70-130			
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0500		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: Toluene-d8	0.0517		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0521		mg/Kg wet	0.0500		104	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 B065318 - SW-846 5035										
LCS Dup (B065318-BSD1)										
Prepared & Analyzed: 12/26/12										
Acetone	0.222	0.10	mg/Kg wet	0.200		111	40-160	2.98	20	†
tert-Amyl Methyl Ether (TAME)	0.0236	0.0010	mg/Kg wet	0.0200		118	70-130	7.10	20	
Benzene	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130	9.78	20	
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.72	20	
Bromochloromethane	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130	10.1	20	
Bromodichloromethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	8.30	20	
Bromoform	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130	3.00	20	
Bromomethane	0.0188	0.010	mg/Kg wet	0.0200		93.8	40-160	7.29	20	†
2-Butanone (MEK)	0.232	0.040	mg/Kg wet	0.200		116	40-160	5.68	20	†
n-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	5.93	20	
sec-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	6.54	20	
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	6.99	20	
tert-Butyl Ethyl Ether (TBEE)	0.0251	0.0010	mg/Kg wet	0.0200		125	70-130	11.4	20	
Carbon Disulfide	0.0202	0.0060	mg/Kg wet	0.0200		101	70-130	6.22	20	
Carbon Tetrachloride	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	9.08	20	
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	7.52	20	
Chlorodibromomethane	0.0190	0.0010	mg/Kg wet	0.0200		95.1	70-130	5.51	20	
Chloroethane	0.0198	0.010	mg/Kg wet	0.0200		99.2	70-130	6.13	20	
Chloroform	0.0235	0.0040	mg/Kg wet	0.0200		118	70-130	7.51	20	
Chloromethane	0.0209	0.010	mg/Kg wet	0.0200		105	40-160	8.98	20	†
2-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	4.65	20	
4-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	4.76	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	5.25	20	V-16
1,2-Dibromoethane (EDB)	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130	4.19	20	
Dibromomethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	7.97	20	
1,2-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	5.43	20	
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	5.57	20	
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	6.04	20	
Dichlorodifluoromethane (Freon 12)	0.00910	0.010	mg/Kg wet	0.0200		45.5	40-160	13.9	20	L-14 †
1,1-Dichloroethane	0.0250	0.0020	mg/Kg wet	0.0200		125	70-130	10.4	20	
1,2-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	7.46	20	
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130	5.71	20	
cis-1,2-Dichloroethylene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	10.2	20	
trans-1,2-Dichloroethylene	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130	11.4	20	
1,2-Dichloropropane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	7.31	20	
1,3-Dichloropropane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	10.1	20	
2,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	9.41	20	
1,1-Dichloropropene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	6.85	20	
cis-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	9.96	20	
trans-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	7.70	20	
Diethyl Ether	0.0201	0.010	mg/Kg wet	0.0200		100	70-130	4.79	20	
Diisopropyl Ether (DIPE)	0.0288	0.0010	mg/Kg wet	0.0200		144 *	70-130	10.9	20	L-07
1,4-Dioxane	0.208	0.10	mg/Kg wet	0.200		104	40-160	19.8	20	V-16 †
Ethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	8.65	20	
Hexachlorobutadiene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130	8.16	20	
2-Hexanone (MBK)	0.211	0.020	mg/Kg wet	0.200		106	40-160	3.43	20	†
Isopropylbenzene (Cumene)	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	8.50	20	
p-Isopropyltoluene (p-Cymene)	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	4.90	20	
Methyl tert-Butyl Ether (MTBE)	0.0245	0.0040	mg/Kg wet	0.0200		122	70-130	10.1	20	
Methylene Chloride	0.0258	0.010	mg/Kg wet	0.0200		129	70-130	10.5	20	
4-Methyl-2-pentanone (MIBK)	0.219	0.020	mg/Kg wet	0.200		109	40-160	3.72	20	†
Naphthalene	0.0180	0.0040	mg/Kg wet	0.0200		89.9	70-130	0.444	20	V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065318 - SW-846 5035										
LCS Dup (B065318-BSD1)										
Prepared & Analyzed: 12/26/12										
n-Propylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	6.31	20	
Styrene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	7.69	20	
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	4.40	20	
1,1,2,2-Tetrachloroethane	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	0.368	20	
Tetrachloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	9.42	20	
Tetrahydrofuran	0.0214	0.010	mg/Kg wet	0.0200		107	70-130	9.10	20	V-16
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	8.61	20	
1,2,3-Trichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	3.44	20	
1,2,4-Trichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	4.31	20	
1,1,1-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	10.3	20	
1,1,2-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	5.47	20	
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	8.25	20	
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.0200		90.1	70-130	7.01	20	
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	2.37	20	
1,2,4-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	5.83	20	
1,3,5-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	6.87	20	
Vinyl Chloride	0.0172	0.010	mg/Kg wet	0.0200		85.8	70-130	8.51	20	
m+p Xylene	0.0436	0.0040	mg/Kg wet	0.0400		109	70-130	8.31	20	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.61	20	
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0519		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0523		mg/Kg wet	0.0500		105	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 B065266 - SW-846 3546

Blank (B065266-BLK1)

Prepared & Analyzed: 12/26/12

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							V-20
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							

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 B065266 - SW-846 3546										
Blank (B065266-BLK1)										
Prepared & Analyzed: 12/26/12										
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	6.30		mg/Kg wet	6.67		94.6	30-130			
Surrogate: Phenol-d6	6.71		mg/Kg wet	6.67		101	30-130			
Surrogate: Nitrobenzene-d5	3.10		mg/Kg wet	3.33		93.0	30-130			
Surrogate: 2-Fluorobiphenyl	3.37		mg/Kg wet	3.33		101	30-130			
Surrogate: 2,4,6-Tribromophenol	7.59		mg/Kg wet	6.67		114	30-130			
Surrogate: Terphenyl-d14	4.46		mg/Kg wet	3.33		134 *	30-130			S-07
LCS (B065266-BS1)										
Prepared & Analyzed: 12/26/12										
Acenaphthene	1.75	0.17	mg/Kg wet	1.67		105	40-140			
Acenaphthylene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Acetophenone	1.54	0.34	mg/Kg wet	1.67		92.4	40-140			
Aniline	0.928	0.34	mg/Kg wet	1.67		55.7	40-140			
Anthracene	1.85	0.17	mg/Kg wet	1.67		111	40-140			
Benzo(a)anthracene	1.88	0.17	mg/Kg wet	1.67		113	40-140			
Benzo(a)pyrene	1.84	0.17	mg/Kg wet	1.67		110	40-140			
Benzo(b)fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.5	40-140			
Benzo(g,h,i)perylene	2.62	0.17	mg/Kg wet	1.67		157 *	40-140			L-02
Benzo(k)fluoranthene	1.63	0.17	mg/Kg wet	1.67		97.7	40-140			
Bis(2-chloroethoxy)methane	1.72	0.34	mg/Kg wet	1.67		103	40-140			
Bis(2-chloroethyl)ether	1.70	0.34	mg/Kg wet	1.67		102	40-140			
Bis(2-chloroisopropyl)ether	1.41	0.34	mg/Kg wet	1.67		84.5	40-140			
Bis(2-Ethylhexyl)phthalate	1.99	0.34	mg/Kg wet	1.67		120	40-140			
4-Bromophenylphenylether	1.91	0.34	mg/Kg wet	1.67		115	40-140			
Butylbenzylphthalate	2.02	0.66	mg/Kg wet	1.67		121	40-140			
4-Chloroaniline	1.04	0.66	mg/Kg wet	1.67		62.5	15-140			†
2-Chloronaphthalene	1.54	0.34	mg/Kg wet	1.67		92.6	40-140			
2-Chlorophenol	1.65	0.34	mg/Kg wet	1.67		98.7	30-130			
Chrysene	1.84	0.17	mg/Kg wet	1.67		111	40-140			
Dibenz(a,h)anthracene	2.56	0.17	mg/Kg wet	1.67		153 *	40-140			L-02
Dibenzofuran	1.77	0.34	mg/Kg wet	1.67		106	40-140			
Di-n-butylphthalate	1.75	0.34	mg/Kg wet	1.67		105	40-140			
1,2-Dichlorobenzene	1.55	0.34	mg/Kg wet	1.67		92.8	40-140			
1,3-Dichlorobenzene	1.53	0.34	mg/Kg wet	1.67		91.9	40-140			
1,4-Dichlorobenzene	1.50	0.34	mg/Kg wet	1.67		90.3	40-140			
3,3-Dichlorobenzidine	1.61	0.17	mg/Kg wet	1.67		96.4	40-140			
2,4-Dichlorophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130			
Diethylphthalate	1.76	0.34	mg/Kg wet	1.67		106	40-140			
2,4-Dimethylphenol	1.72	0.34	mg/Kg wet	1.67		103	30-130			
Dimethylphthalate	1.75	0.66	mg/Kg wet	1.67		105	40-140			
2,4-Dinitrophenol	0.869	0.66	mg/Kg wet	1.67		52.1	15-140			†
2,4-Dinitrotoluene	2.04	0.34	mg/Kg wet	1.67		123	40-140			V-06
2,6-Dinitrotoluene	1.94	0.34	mg/Kg wet	1.67		117	40-140			
Di-n-octylphthalate	1.43	0.66	mg/Kg wet	1.67		85.7	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.65	0.34	mg/Kg wet	1.67		99.2	40-140			
Fluoranthene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
Fluorene	1.91	0.17	mg/Kg wet	1.67		115	40-140			
Hexachlorobenzene	1.94	0.34	mg/Kg wet	1.67		116	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 B065266 - SW-846 3546										
LCS (B065266-BS1)										
Prepared & Analyzed: 12/26/12										
Hexachlorobutadiene	1.69	0.34	mg/Kg wet	1.67		101	40-140			
Hexachloroethane	1.45	0.34	mg/Kg wet	1.67		87.3	40-140			
Indeno(1,2,3-cd)pyrene	2.52	0.17	mg/Kg wet	1.67		151	* 40-140			L-02
Isophorone	1.63	0.34	mg/Kg wet	1.67		97.8	40-140			
2-Methylnaphthalene	1.54	0.17	mg/Kg wet	1.67		92.5	40-140			
2-Methylphenol	1.59	0.34	mg/Kg wet	1.67		95.2	30-130			
3/4-Methylphenol	2.42	0.34	mg/Kg wet	1.67		145	* 30-130			L-02
Naphthalene	1.61	0.17	mg/Kg wet	1.67		96.5	40-140			
Nitrobenzene	1.59	0.34	mg/Kg wet	1.67		95.2	40-140			
2-Nitrophenol	1.68	0.34	mg/Kg wet	1.67		101	30-130			
4-Nitrophenol	1.77	0.66	mg/Kg wet	1.67		106	15-140			†
Pentachlorophenol	1.47	0.34	mg/Kg wet	1.67		88.3	30-130			
Phenanthrene	1.83	0.17	mg/Kg wet	1.67		110	40-140			
Phenol	1.44	0.34	mg/Kg wet	1.67		86.3	15-140			†
Pyrene	2.31	0.17	mg/Kg wet	1.67		138	40-140			
1,2,4-Trichlorobenzene	1.71	0.34	mg/Kg wet	1.67		103	40-140			
2,4,5-Trichlorophenol	1.85	0.34	mg/Kg wet	1.67		111	30-130			
2,4,6-Trichlorophenol	1.83	0.34	mg/Kg wet	1.67		110	30-130			
Surrogate: 2-Fluorophenol	6.93		mg/Kg wet	6.67		104	30-130			
Surrogate: Phenol-d6	6.77		mg/Kg wet	6.67		102	30-130			
Surrogate: Nitrobenzene-d5	3.25		mg/Kg wet	3.33		97.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.41		mg/Kg wet	3.33		102	30-130			
Surrogate: 2,4,6-Tribromophenol	9.63		mg/Kg wet	6.67		144	* 30-130			S-07
Surrogate: Terphenyl-d14	4.86		mg/Kg wet	3.33		146	* 30-130			S-07
LCS Dup (B065266-BS1)										
Prepared & Analyzed: 12/26/12										
Acenaphthene	1.82	0.17	mg/Kg wet	1.67		109	40-140	3.89	30	
Acenaphthylene	1.77	0.17	mg/Kg wet	1.67		106	40-140	2.80	30	
Acetophenone	1.64	0.34	mg/Kg wet	1.67		98.2	40-140	6.09	30	
Aniline	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	10.3	30	
Anthracene	1.88	0.17	mg/Kg wet	1.67		113	40-140	2.04	30	
Benzo(a)anthracene	1.89	0.17	mg/Kg wet	1.67		113	40-140	0.796	30	
Benzo(a)pyrene	1.85	0.17	mg/Kg wet	1.67		111	40-140	0.650	30	
Benzo(b)fluoranthene	1.66	0.17	mg/Kg wet	1.67		99.8	40-140	1.29	30	
Benzo(g,h,i)perylene	2.53	0.17	mg/Kg wet	1.67		152	* 40-140	3.46	30	L-02
Benzo(k)fluoranthene	1.67	0.17	mg/Kg wet	1.67		100	40-140	2.71	30	
Bis(2-chloroethoxy)methane	1.75	0.34	mg/Kg wet	1.67		105	40-140	1.79	30	
Bis(2-chloroethyl)ether	1.72	0.34	mg/Kg wet	1.67		103	40-140	1.01	30	
Bis(2-chloroisopropyl)ether	1.47	0.34	mg/Kg wet	1.67		88.2	40-140	4.38	30	
Bis(2-Ethylhexyl)phthalate	2.08	0.34	mg/Kg wet	1.67		125	40-140	4.01	30	
4-Bromophenylphenylether	2.16	0.34	mg/Kg wet	1.67		130	40-140	12.4	30	
Butylbenzylphthalate	2.01	0.66	mg/Kg wet	1.67		120	40-140	0.778	30	
4-Chloroaniline	1.20	0.66	mg/Kg wet	1.67		72.2	15-140	14.4	30	†
2-Chloronaphthalene	1.52	0.34	mg/Kg wet	1.67		91.1	40-140	1.68	30	
2-Chlorophenol	1.73	0.34	mg/Kg wet	1.67		104	30-130	4.94	30	
Chrysene	1.85	0.17	mg/Kg wet	1.67		111	40-140	0.451	30	
Dibenz(a,h)anthracene	2.41	0.17	mg/Kg wet	1.67		145	* 40-140	5.80	30	L-02
Dibenzofuran	1.86	0.34	mg/Kg wet	1.67		111	40-140	5.00	30	
Di-n-butylphthalate	1.69	0.34	mg/Kg wet	1.67		101	40-140	3.55	30	
1,2-Dichlorobenzene	1.63	0.34	mg/Kg wet	1.67		97.9	40-140	5.37	30	
1,3-Dichlorobenzene	1.54	0.34	mg/Kg wet	1.67		92.4	40-140	0.564	30	
1,4-Dichlorobenzene	1.55	0.34	mg/Kg wet	1.67		92.9	40-140	2.90	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 B065266 - SW-846 3546										
LCS Dup (B065266-BSD1)										
Prepared & Analyzed: 12/26/12										
3,3-Dichlorobenzidine	1.67	0.17	mg/Kg wet	1.67		100	40-140	3.93	30	
2,4-Dichlorophenol	1.81	0.34	mg/Kg wet	1.67		108	30-130	6.70	30	
Diethylphthalate	1.88	0.34	mg/Kg wet	1.67		113	40-140	6.42	30	
2,4-Dimethylphenol	1.80	0.34	mg/Kg wet	1.67		108	30-130	4.57	30	
Dimethylphthalate	1.93	0.66	mg/Kg wet	1.67		116	40-140	9.52	30	
2,4-Dinitrophenol	0.902	0.66	mg/Kg wet	1.67		54.1	15-140	3.73	30	†
2,4-Dinitrotoluene	2.10	0.34	mg/Kg wet	1.67		126	40-140	2.69	30	V-06
2,6-Dinitrotoluene	2.07	0.34	mg/Kg wet	1.67		124	40-140	6.23	30	
Di-n-octylphthalate	1.58	0.66	mg/Kg wet	1.67		95.1	40-140	10.4	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.89	0.34	mg/Kg wet	1.67		113	40-140	13.2	30	
Fluoranthene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140	2.64	30	
Fluorene	2.01	0.17	mg/Kg wet	1.67		121	40-140	5.09	30	
Hexachlorobenzene	2.10	0.34	mg/Kg wet	1.67		126	40-140	8.03	30	
Hexachlorobutadiene	1.70	0.34	mg/Kg wet	1.67		102	40-140	0.511	30	
Hexachloroethane	1.51	0.34	mg/Kg wet	1.67		90.7	40-140	3.89	30	
Indeno(1,2,3-cd)pyrene	2.47	0.17	mg/Kg wet	1.67		148 *	40-140	2.05	30	L-02
Isophorone	1.69	0.34	mg/Kg wet	1.67		101	40-140	3.54	30	
2-Methylnaphthalene	1.66	0.17	mg/Kg wet	1.67		99.3	40-140	7.13	30	
2-Methylphenol	1.72	0.34	mg/Kg wet	1.67		103	30-130	7.83	30	
3/4-Methylphenol	2.72	0.34	mg/Kg wet	1.67		163 *	30-130	11.6	30	L-02
Naphthalene	1.63	0.17	mg/Kg wet	1.67		98.1	40-140	1.58	30	
Nitrobenzene	1.54	0.34	mg/Kg wet	1.67		92.3	40-140	3.11	30	
2-Nitrophenol	1.66	0.34	mg/Kg wet	1.67		99.3	30-130	1.46	30	
4-Nitrophenol	1.70	0.66	mg/Kg wet	1.67		102	15-140	4.11	30	†
Pentachlorophenol	1.59	0.34	mg/Kg wet	1.67		95.6	30-130	7.90	30	
Phenanthrene	1.86	0.17	mg/Kg wet	1.67		112	40-140	1.93	30	
Phenol	1.54	0.34	mg/Kg wet	1.67		92.2	15-140	6.61	30	†
Pyrene	2.11	0.17	mg/Kg wet	1.67		127	40-140	8.90	30	
1,2,4-Trichlorobenzene	1.70	0.34	mg/Kg wet	1.67		102	40-140	0.723	30	
2,4,5-Trichlorophenol	1.92	0.34	mg/Kg wet	1.67		115	30-130	3.73	30	
2,4,6-Trichlorophenol	1.94	0.34	mg/Kg wet	1.67		117	30-130	5.93	30	
Surrogate: 2-Fluorophenol	6.82		mg/Kg wet	6.67		102	30-130			
Surrogate: Phenol-d6	6.82		mg/Kg wet	6.67		102	30-130			
Surrogate: Nitrobenzene-d5	3.09		mg/Kg wet	3.33		92.8	30-130			
Surrogate: 2-Fluorobiphenyl	3.28		mg/Kg wet	3.33		98.5	30-130			
Surrogate: 2,4,6-Tribromophenol	9.59		mg/Kg wet	6.67		144 *	30-130			S-07
Surrogate: Terphenyl-d14	4.49		mg/Kg wet	3.33		135 *	30-130			S-07

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
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Batch B065267 - SW-846 3546

Blank (B065267-BLK1)

Prepared & Analyzed: 12/26/12

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.200		78.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.4	30-150			

LCS (B065267-BS1)

Prepared & Analyzed: 12/26/12

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		114	40-140			
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1260 [2C]	0.18	0.10	mg/Kg wet	0.200		90.3	40-140			
Surrogate: Decachlorobiphenyl	0.162		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.5	30-150			

LCS Dup (B065267-BSD1)

Prepared & Analyzed: 12/26/12

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		103	40-140	3.73	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140	3.82	30	
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		88.9	40-140	1.74	30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		87.1	40-140	3.68	30	
Surrogate: Decachlorobiphenyl	0.155		mg/Kg wet	0.200		77.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.152		mg/Kg wet	0.200		75.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/Kg wet	0.200		93.5	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 B065268 - SW-846 3546										
Blank (B065268-BLK1)										
Prepared & Analyzed: 12/26/12										
Fuel Oil #2	ND	8.3	mg/Kg wet							
Asphalt	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.79		mg/Kg wet	3.33		83.7	40-140			
LCS (B065268-BS1)										
Prepared & Analyzed: 12/26/12										
Fuel Oil #2	26.1	8.3	mg/Kg wet	33.3		78.2	40-140			
Surrogate: o-Terphenyl	2.58		mg/Kg wet	3.33		77.4	40-140			
LCS Dup (B065268-BSD1)										
Prepared & Analyzed: 12/26/12										
Fuel Oil #2	27.0	8.3	mg/Kg wet	33.3		81.0	40-140	3.57	25	
Surrogate: o-Terphenyl	2.64		mg/Kg wet	3.33		79.1	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065275 - SW-846 7471										
Blank (B065275-BLK1) Prepared: 12/26/12 Analyzed: 12/27/12										
Mercury	ND	0.025	mg/Kg wet							
LCS (B065275-BS1) Prepared: 12/26/12 Analyzed: 12/27/12										
Mercury	3.56	0.33	mg/Kg wet	3.73		95.5	71.7-128.3			
LCS Dup (B065275-BSD1) Prepared: 12/26/12 Analyzed: 12/27/12										
Mercury	3.44	0.33	mg/Kg wet	3.73		92.3	71.7-128.3	3.38	30	
Batch B065276 - SW-846 3050B										
Blank (B065276-BLK1) Prepared: 12/26/12 Analyzed: 12/27/12										
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 (B065276-BS1) Prepared: 12/26/12 Analyzed: 12/27/12										
Arsenic	93.0	5.0	mg/Kg wet	94.5		98.4	82.2-117.5			
Barium	167	5.0	mg/Kg wet	166		101	83.1-116.3			
Cadmium	57.4	0.50	mg/Kg wet	59.9		95.8	84-115.9			
Chromium	69.5	1.0	mg/Kg wet	69.3		100	81.4-118.6			
Lead	87.0	1.5	mg/Kg wet	91.7		94.9	82.4-117.8			
Selenium	157	10	mg/Kg wet	159		98.6	79.2-120.8			
Silver	33.1	1.0	mg/Kg wet	33.9		97.8	66.4-133.9			
LCS Dup (B065276-BSD1) Prepared: 12/26/12 Analyzed: 12/27/12										
Arsenic	92.2	5.0	mg/Kg wet	94.5		97.5	82.2-117.5	0.901	30	
Barium	170	5.0	mg/Kg wet	166		102	83.1-116.3	1.64	30	
Cadmium	56.9	0.50	mg/Kg wet	59.9		95.1	84-115.9	0.798	30	
Chromium	70.5	1.0	mg/Kg wet	69.3		102	81.4-118.6	1.51	30	
Lead	86.4	1.5	mg/Kg wet	91.7		94.2	82.4-117.8	0.761	30	
Selenium	153	10	mg/Kg wet	159		96.5	79.2-120.8	2.13	30	
Silver	32.8	1.0	mg/Kg wet	33.9		96.7	66.4-133.9	1.06	30	
MRL Check (B065276-MRL1) Prepared: 12/26/12 Analyzed: 12/27/12										
Lead	0.946	0.74	mg/Kg wet	0.738		128 *	80-120			L-10

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065265 - % Solids										
Duplicate (B065265-DUP1)		Source: 12L0785-05			Prepared & Analyzed: 12/26/12					
% Solids	88.6		% Wt		88.6			0.00	20	
Batch B065358 - SW-846 9014										
Blank (B065358-BLK1)		Prepared & Analyzed: 12/27/12								
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B065358-BS1)		Prepared & Analyzed: 12/27/12								
Reactive Cyanide	8.9	0.40	mg/Kg	10.0		89.0	80.1-115			
Batch B065359 - SW-846 9030A										
Blank (B065359-BLK1)		Prepared & Analyzed: 12/27/12								
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B065359-BS1)		Prepared & Analyzed: 12/27/12								
Reactive Sulfide	16	2.0	mg/Kg	14.9		110	32.9-140			
Batch B065387 - SM18-20 2510B										
Blank (B065387-BLK1)		Prepared & Analyzed: 12/27/12								
Specific conductance	ND	2.0	µmhos/cm							
LCS (B065387-BS1)		Prepared & Analyzed: 12/27/12								
Specific conductance	140	2.0	µmhos/cm	147		93.3	77.3-114			
Duplicate (B065387-DUP1)		Source: 12L0785-04			Prepared & Analyzed: 12/27/12					
Specific conductance	3.0	2.0	µmhos/cm		2.7			11.1	18.9	
Batch B065556 - SW-846 1010										
Blank (B065556-BLK1)		Prepared & Analyzed: 01/02/13								
Flashpoint	> 212 °F		°F							
LCS (B065556-BS1)		Prepared & Analyzed: 01/02/13								
Flashpoint	82		°F	81.0		101	98.8-101			
LCS Dup (B065556-BSD1)		Prepared & Analyzed: 01/02/13								
Flashpoint	82		°F	81.0		101	98.8-101	0.00	1.61	

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 B065556 - SW-846 1010										
Duplicate (B065556-DUP1)		Source: 12L0785-03			Prepared & Analyzed: 01/02/13					
Flashpoint	113		°F		108			4.88	20	
Duplicate (B065556-DUP2)		Source: 12L0785-04			Prepared & Analyzed: 01/02/13					
Flashpoint	119		°F		113			4.57	20	
Batch B065753 - SW-846 1010										
Blank (B065753-BLK1)					Prepared & Analyzed: 01/04/13					
Flashpoint	> 212		°F							
LCS (B065753-BS1)					Prepared & Analyzed: 01/04/13					
Flashpoint	81		°F	81.0		99.5	98.8-101			
LCS Dup (B065753-BSD1)					Prepared & Analyzed: 01/04/13					
Flashpoint	81		°F	81.0		99.5	98.8-101	0.00	1.61	

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.
- DL-03 Elevated reporting limit due to matrix.
 - L-02 Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - L-10 The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side.
 - L-14 Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
 - O-26 Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.
 - O-32 A five times dilution was performed as part of the standard analytical procedure.
 - S-07 One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
 - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
 - V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
 - Z-01 Sample contamination does not match any reference standard but most of the contamination falls within the C20-C36 hydrocarbon range. The chromatogram also shows the presence of PAH's.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME,VA
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D 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
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH

CERTIFICATIONS

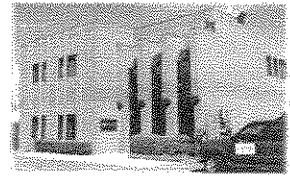
Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

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



Sample Receipt Checklist

CLIENT NAME: Kleinfelder RECEIVED BY: SP DATE: 12/24/12

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

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

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.6

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

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

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>7</u>
500 mL Amber		4 oz amber/clear jar	<u>4</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>15</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

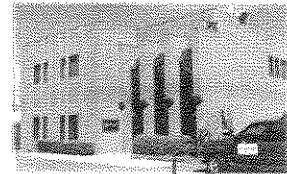
40 mL vials: # HCl _____ # Methanol 5
 # Bisulfate 10 # DI Water _____
 # Thiosulfate _____ Unpreserved

Time and Date Frozen:

Doc# 277

Rev. 3 May 2012

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



Sample Receipt Checklist

CLIENT NAME: Rumpfelter RECEIVED BY: VA DATE: 1/4

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

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.4

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

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

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <input checked="" type="radio"/> amber/clear jar	<u>1</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

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

Time and Date Frozen:

Doc# 277

Rev. 3 May 2012

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12L0785
Project Location: Cambridge, Concord Ave.	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
 12L0785-01 thru 12L0785-05

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 (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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

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

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


G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

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 Director
Printed Name: Michael A. Erickson	Date: 01/07/13

January 8, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge-Concord Ave.
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 12L0841

Enclosed are results of analyses for samples received by the laboratory on December 28, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 1/8/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0841

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

PROJECT LOCATION: Cambridge-Concord Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B336-0.5-8.0	12L0841-01	Soil		SM 2540G SM18-20 2510B SW-846 1010 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A	

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.

SW-846 8015C

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

12L0841-01[B336-0.5-8.0]

SW-846 8082A

Qualifications:

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

Analyte & Samples(s) Qualified:

12L0841-01[B336-0.5-8.0]

SW-846 8260C

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:

Carbon Tetrachloride

B065481-BS1, B065481-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:

2,2-Dichloropropane, Vinyl Chloride

B065481-BSD1, B065481-BS1

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

Analyte & Samples(s) Qualified:

Acetone, Bromomethane, Dichlorodifluoromethane (Freon 12)

B065481-BS1, B065481-BSD1

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

Analyte & Samples(s) Qualified:

Acetone, Methylene Chloride, Naphthalene

12L0841-01[B336-0.5-8.0], B065481-BLK1, B065481-BS1, B065481-BSD1

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

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane, 2-Butanone (MEK), Acetone, Tetrahydrofuran

12L0841-01[B336-0.5-8.0], B065481-BLK1, B065481-BS1, B065481-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:

2,2-Dichloropropane, Bromochloromethane, Carbon Tetrachloride

B065481-BS1, B065481-BSD1

SW-846 8270D

Qualifications:

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

12L0841-01[B336-0.5-8.0], B065586-MS1, B065586-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate

B065586-MS1

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

12L0841-01[B336-0.5-8.0], B065586-BLK1, B065586-BS1, B065586-BSD1, B065586-MS1, B065586-MSD1

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

Analyte & Samples(s) Qualified:

4-Nitrophenol

12L0841-01[B336-0.5-8.0], B065586-BLK1, B065586-BS1, B065586-BSD1, B065586-MS1, B065586-MSD1

SW-846 8260C

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

SW-846 8270D

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: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1	V-05, V-16	SW-846 8260C	12/31/12	12/31/12 10:43	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Bromoform	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1	V-16	SW-846 8260C	12/31/12	12/31/12 10:43	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Carbon Disulfide	ND	0.0049	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Chlorodibromomethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Chloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0032	mg/Kg dry	1	V-16	SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
cis-1,3-Dichloropropene	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
trans-1,3-Dichloropropene	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Diethyl Ether	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,4-Dioxane	ND	0.081	mg/Kg dry	1	V-16	SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Methylene Chloride	ND	0.0081	mg/Kg dry	1	V-05	SW-846 8260C	12/31/12	12/31/12 10:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1	V-05	SW-846 8260C	12/31/12	12/31/12 10:43	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	12/31/12	12/31/12 10:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	90.9	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	97.2	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

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 8270D	1/3/13	1/4/13 14:48	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Bis(2-Ethylhexyl)phthalate	0.72	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Butylbenzylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Dimethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	MS-09, V-04	SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Di-n-octylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

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	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1	V-05	SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/3/13	1/4/13 14:48	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		85.9	30-130					1/4/13 14:48	
Phenol-d6		98.2	30-130					1/4/13 14:48	
Nitrobenzene-d5		72.5	30-130					1/4/13 14:48	
2-Fluorobiphenyl		97.2	30-130					1/4/13 14:48	
2,4,6-Tribromophenol		73.1	30-130					1/4/13 14:48	
Terphenyl-d14		65.7	30-130					1/4/13 14:48	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/31/12	1/3/13 15:27	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		60.5	30-150					1/3/13 15:27	
Decachlorobiphenyl [2]		61.3	30-150					1/3/13 15:27	
Tetrachloro-m-xylene [1]		77.6	30-150					1/3/13 15:27	
Tetrachloro-m-xylene [2]		75.1	30-150					1/3/13 15:27	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Asphalt	1300	180	mg/Kg dry	20		SW-846 8015C	12/31/12	1/2/13 19:10	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		*	40-140		S-01			1/2/13 19:10	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.4	2.8	mg/Kg dry	1		SW-846 6010C	12/31/12	1/2/13 13:44	OP
Barium	22	2.8	mg/Kg dry	1		SW-846 6010C	12/31/12	1/2/13 13:44	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	12/31/12	1/2/13 13:44	OP
Chromium	10	0.56	mg/Kg dry	1		SW-846 6010C	12/31/12	1/2/13 13:44	OP
Lead	2.9	0.84	mg/Kg dry	1		SW-846 6010C	12/31/12	1/2/13 13:44	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/2/13	1/3/13 10:00	SAJ
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	12/31/12	1/2/13 13:44	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C	12/31/12	1/2/13 16:18	OP

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 12L0841

Date Received: 12/28/2012

Field Sample #: B336-0.5-8.0

Sampled: 12/26/2012 14:00

Sample ID: 12L0841-01

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	1/3/13	1/3/13 17:02	CM
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	1/2/13	1/2/13 10:50	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/2/13	1/2/13 10:30	LL
Specific conductance	5.3	2.0	µmhos/cm	1		SM18-20 2510B	1/2/13	1/2/13 14:30	CM
% Solids	89.4		% Wt	1		SM 2540G	1/2/13	1/3/13 9:40	RH

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12L0841-01 [B336-0.5-8.0]	B065525	01/02/13

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
12L0841-01 [B336-0.5-8.0]	B065553	1.00	01/02/13

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065627	50.0	50.0	01/03/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065485	0.999	50.0	12/31/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065498	0.615	50.0	01/02/13

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065487	30.3	1.00	12/31/12

Prep Method: SW-846 3545-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065491	10.1	10.0	12/31/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065481	6.90	10.0	12/31/12

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065586	30.2	1.00	01/03/13

Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065531	25.3	250	01/02/13

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12L0841-01 [B336-0.5-8.0]	B065529	25.3	250	01/02/13

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 B065481 - SW-846 5035

Blank (B065481-BLK1)

Prepared & Analyzed: 12/31/12

Acetone	ND	0.10	mg/Kg wet							V-05, 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	0.010	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	0.0020	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	0.010	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	0.0040	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							V-05
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B065481 - SW-846 5035

Blank (B065481-BLK1)

Prepared & Analyzed: 12/31/12

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.010	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	0.0446		mg/Kg wet	0.0500		89.3	70-130			
Surrogate: Toluene-d8	0.0488		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0473		mg/Kg wet	0.0500		94.6	70-130			

LCS (B065481-BS1)

Prepared & Analyzed: 12/31/12

Acetone	0.138	0.10	mg/Kg wet	0.200		68.8	40-160			L-14, V-05, V-16 †
tert-Amyl Methyl Ether (TAME)	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
Bromochloromethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			V-20
Bromodichloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Bromoform	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			
Bromomethane	0.0130	0.010	mg/Kg wet	0.0200		65.2	40-160			L-14 †
2-Butanone (MEK)	0.169	0.040	mg/Kg wet	0.200		84.5	40-160			V-16 †
n-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
tert-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Carbon Disulfide	0.0166	0.0060	mg/Kg wet	0.0200		82.9	70-130			
Carbon Tetrachloride	0.0300	0.0020	mg/Kg wet	0.0200		150 *	70-130			L-02, V-20
Chlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Chlorodibromomethane	0.0195	0.010	mg/Kg wet	0.0200		97.3	70-130			
Chloroethane	0.0164	0.010	mg/Kg wet	0.0200		82.2	70-130			
Chloroform	0.0196	0.0040	mg/Kg wet	0.0200		98.1	70-130			
Chloromethane	0.0158	0.010	mg/Kg wet	0.0200		79.0	40-160			†
2-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
4-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			V-16
1,2-Dibromoethane (EDB)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Dibromomethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
1,3-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	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 B065481 - SW-846 5035										
LCS (B065481-BS1)										
Prepared & Analyzed: 12/31/12										
Dichlorodifluoromethane (Freon 12)	0.0107	0.010	mg/Kg wet	0.0200		53.6	40-160			L-14 †
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
1,2-Dichloroethane	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130			
1,1-Dichloroethylene	0.0167	0.0040	mg/Kg wet	0.0200		83.6	70-130			
cis-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2-Dichloropropane	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
1,3-Dichloropropane	0.0188	0.0010	mg/Kg wet	0.0200		93.8	70-130			
2,2-Dichloropropane	0.0256	0.0020	mg/Kg wet	0.0200		128	70-130			V-20
1,1-Dichloropropene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
cis-1,3-Dichloropropene	0.0179	0.010	mg/Kg wet	0.0200		89.4	70-130			
trans-1,3-Dichloropropene	0.0189	0.010	mg/Kg wet	0.0200		94.4	70-130			
Diethyl Ether	0.0182	0.010	mg/Kg wet	0.0200		90.8	70-130			
Diisopropyl Ether (DIPE)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
1,4-Dioxane	0.185	0.10	mg/Kg wet	0.200		92.5	40-160			V-16 †
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
2-Hexanone (MBK)	0.166	0.020	mg/Kg wet	0.200		82.8	40-160			†
Isopropylbenzene (Cumene)	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
p-Isopropyltoluene (p-Cymene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130			
Methylene Chloride	0.0142	0.010	mg/Kg wet	0.0200		70.8	70-130			V-05
4-Methyl-2-pentanone (MIBK)	0.174	0.020	mg/Kg wet	0.200		87.0	40-160			†
Naphthalene	0.0149	0.0040	mg/Kg wet	0.0200		74.3	70-130			V-05
n-Propylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Styrene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			
1,1,1,2-Tetrachloroethane	0.0206	0.010	mg/Kg wet	0.0200		103	70-130			
1,1,1,2,2-Tetrachloroethane	0.0189	0.0010	mg/Kg wet	0.0200		94.6	70-130			
Tetrachloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Tetrahydrofuran	0.0221	0.010	mg/Kg wet	0.0200		110	70-130			V-16
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
1,2,3-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,2,4-Trichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130			
1,1,1-Trichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Trichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0172	0.010	mg/Kg wet	0.0200		85.9	70-130			
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trimethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3,5-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
Vinyl Chloride	0.0140	0.010	mg/Kg wet	0.0200		69.9 *	70-130			L-07
m+p Xylene	0.0389	0.0040	mg/Kg wet	0.0400		97.2	70-130			
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0438		mg/Kg wet	0.0500		87.6	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0488		mg/Kg wet	0.0500		97.6	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 B065481 - SW-846 5035										
LCS Dup (B065481-BSD1)										
				Prepared & Analyzed: 12/31/12						
Acetone	0.150	0.10	mg/Kg wet	0.200		75.1	40-160	8.81	20	V-05, V-16 †
tert-Amyl Methyl Ether (TAME)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	5.77	20	
Benzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	6.88	20	
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	8.29	20	
Bromochloromethane	0.0256	0.0020	mg/Kg wet	0.0200		128	70-130	11.3	20	V-20
Bromodichloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	7.61	20	
Bromoform	0.0208	0.010	mg/Kg wet	0.0200		104	70-130	2.93	20	
Bromomethane	0.0159	0.010	mg/Kg wet	0.0200		79.4	40-160	19.6	20	†
2-Butanone (MEK)	0.177	0.040	mg/Kg wet	0.200		88.3	40-160	4.39	20	V-16 †
n-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	4.69	20	
sec-Butylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	7.52	20	
tert-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	7.13	20	
tert-Butyl Ethyl Ether (TBEE)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	4.19	20	
Carbon Disulfide	0.0179	0.0060	mg/Kg wet	0.0200		89.4	70-130	7.54	20	
Carbon Tetrachloride	0.0309	0.0020	mg/Kg wet	0.0200		154 *	70-130	2.69	20	L-02, V-20
Chlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	7.47	20	
Chlorodibromomethane	0.0202	0.010	mg/Kg wet	0.0200		101	70-130	3.83	20	
Chloroethane	0.0185	0.010	mg/Kg wet	0.0200		92.7	70-130	12.0	20	
Chloroform	0.0207	0.0040	mg/Kg wet	0.0200		103	70-130	5.16	20	
Chloromethane	0.0173	0.010	mg/Kg wet	0.0200		86.5	40-160	9.06	20	†
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	8.21	20	
4-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	8.94	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0192	0.0040	mg/Kg wet	0.0200		95.9	70-130	4.98	20	V-16
1,2-Dibromoethane (EDB)	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130	4.47	20	
Dibromomethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	6.09	20	
1,2-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	6.96	20	
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	5.20	20	
1,4-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	5.52	20	
Dichlorodifluoromethane (Freon 12)	0.0112	0.010	mg/Kg wet	0.0200		56.2	40-160	4.74	20	L-14 †
1,1-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	6.62	20	
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	7.26	20	
1,1-Dichloroethylene	0.0177	0.0040	mg/Kg wet	0.0200		88.6	70-130	5.81	20	
cis-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	4.34	20	
trans-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	5.15	20	
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	8.09	20	
1,3-Dichloropropane	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130	6.00	20	
2,2-Dichloropropane	0.0280	0.0020	mg/Kg wet	0.0200		140 *	70-130	9.04	20	L-07, V-20
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	7.16	20	
cis-1,3-Dichloropropene	0.0191	0.010	mg/Kg wet	0.0200		95.3	70-130	6.39	20	
trans-1,3-Dichloropropene	0.0197	0.010	mg/Kg wet	0.0200		98.3	70-130	4.05	20	
Diethyl Ether	0.0188	0.010	mg/Kg wet	0.0200		94.1	70-130	3.57	20	
Diisopropyl Ether (DIPE)	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	5.66	20	
1,4-Dioxane	0.204	0.10	mg/Kg wet	0.200		102	40-160	9.75	20	V-16 †
Ethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	6.50	20	
Hexachlorobutadiene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	1.61	20	
2-Hexanone (MBK)	0.170	0.020	mg/Kg wet	0.200		85.0	40-160	2.61	20	†
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	6.64	20	
p-Isopropyltoluene (p-Cymene)	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	6.15	20	
Methyl tert-Butyl Ether (MTBE)	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130	4.04	20	
Methylene Chloride	0.0154	0.010	mg/Kg wet	0.0200		76.8	70-130	8.13	20	V-05
4-Methyl-2-pentanone (MIBK)	0.182	0.020	mg/Kg wet	0.200		91.2	40-160	4.77	20	†
Naphthalene	0.0142	0.0040	mg/Kg wet	0.0200		70.9	70-130	4.68	20	V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065481 - SW-846 5035										
LCS Dup (B065481-BSD1)										
Prepared & Analyzed: 12/31/12										
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	8.36	20	
Styrene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	6.54	20	
1,1,1,2-Tetrachloroethane	0.0217	0.010	mg/Kg wet	0.0200		108	70-130	4.92	20	
1,1,2,2-Tetrachloroethane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	6.54	20	
Tetrachloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	8.93	20	
Tetrahydrofuran	0.0225	0.010	mg/Kg wet	0.0200		112	70-130	1.70	20	V-16
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	7.98	20	
1,2,3-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130	3.01	20	
1,2,4-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130	2.12	20	
1,1,1-Trichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	5.43	20	
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	6.35	20	
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	3.55	20	
Trichlorofluoromethane (Freon 11)	0.0184	0.010	mg/Kg wet	0.0200		91.8	70-130	6.64	20	
1,2,3-Trichloropropane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.32	20	
1,2,4-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	7.15	20	
1,3,5-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	7.94	20	
Vinyl Chloride	0.0153	0.010	mg/Kg wet	0.0200		76.3	70-130	8.76	20	
m+p Xylene	0.0421	0.0040	mg/Kg wet	0.0400		105	70-130	8.00	20	
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	8.01	20	
Surrogate: 1,2-Dichloroethane-d4	0.0434		mg/Kg wet	0.0500		86.9	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.3	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 B065586 - SW-846 3546

Blank (B065586-BLK1)

Prepared: 01/03/13 Analyzed: 01/04/13

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							V-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							
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							V-05
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
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Batch B065586 - SW-846 3546

Blank (B065586-BLK1)

Prepared: 01/03/13 Analyzed: 01/04/13

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	5.27		mg/Kg wet	6.67		79.0	30-130			
Surrogate: Phenol-d6	5.28		mg/Kg wet	6.67		79.1	30-130			
Surrogate: Nitrobenzene-d5	2.65		mg/Kg wet	3.33		79.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		80.9	30-130			
Surrogate: 2,4,6-Tribromophenol	5.92		mg/Kg wet	6.67		88.9	30-130			
Surrogate: Terphenyl-d14	3.12		mg/Kg wet	3.33		93.7	30-130			

LCS (B065586-BS1)

Prepared: 01/03/13 Analyzed: 01/04/13

Acenaphthene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140			
Acenaphthylene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140			
Acetophenone	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
Aniline	0.888	0.34	mg/Kg wet	1.67		53.3	40-140			
Anthracene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140			
Benzo(a)anthracene	1.58	0.17	mg/Kg wet	1.67		94.8	40-140			
Benzo(a)pyrene	1.59	0.17	mg/Kg wet	1.67		95.5	40-140			
Benzo(b)fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.4	40-140			
Benzo(g,h,i)perylene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
Benzo(k)fluoranthene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140			
Bis(2-chloroethoxy)methane	1.45	0.34	mg/Kg wet	1.67		86.9	40-140			
Bis(2-chloroethyl)ether	1.32	0.34	mg/Kg wet	1.67		79.5	40-140			
Bis(2-chloroisopropyl)ether	1.32	0.34	mg/Kg wet	1.67		79.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.62	0.34	mg/Kg wet	1.67		97.5	40-140			
4-Bromophenylphenylether	1.43	0.34	mg/Kg wet	1.67		86.1	40-140			
Butylbenzylphthalate	1.59	0.66	mg/Kg wet	1.67		95.4	40-140			
4-Chloroaniline	1.21	0.66	mg/Kg wet	1.67		72.8	15-140			†
2-Chloronaphthalene	1.27	0.34	mg/Kg wet	1.67		76.2	40-140			
2-Chlorophenol	1.29	0.34	mg/Kg wet	1.67		77.2	30-130			
Chrysene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140			
Dibenz(a,h)anthracene	1.66	0.17	mg/Kg wet	1.67		99.7	40-140			
Dibenzofuran	1.46	0.34	mg/Kg wet	1.67		87.6	40-140			
Di-n-butylphthalate	1.54	0.34	mg/Kg wet	1.67		92.5	40-140			
1,2-Dichlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.4	40-140			
1,3-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.4	40-140			
1,4-Dichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.0	40-140			
3,3-Dichlorobenzidine	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
2,4-Dichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.7	30-130			
Diethylphthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140			
2,4-Dimethylphenol	1.49	0.34	mg/Kg wet	1.67		89.2	30-130			
Dimethylphthalate	1.59	0.66	mg/Kg wet	1.67		95.6	40-140			
2,4-Dinitrophenol	0.423	0.66	mg/Kg wet	1.67		25.4	15-140			V-04 †
2,4-Dinitrotoluene	1.83	0.34	mg/Kg wet	1.67		110	40-140			
2,6-Dinitrotoluene	1.74	0.34	mg/Kg wet	1.67		104	40-140			
Di-n-octylphthalate	1.63	0.66	mg/Kg wet	1.67		97.9	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.37	0.34	mg/Kg wet	1.67		82.3	40-140			
Fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
Fluorene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140			
Hexachlorobenzene	1.48	0.34	mg/Kg wet	1.67		89.1	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 B065586 - SW-846 3546

LCS (B065586-BS1)

Prepared: 01/03/13 Analyzed: 01/04/13

Hexachlorobutadiene	1.33	0.34	mg/Kg wet	1.67		79.5	40-140			
Hexachloroethane	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
Indeno(1,2,3-cd)pyrene	1.65	0.17	mg/Kg wet	1.67		99.0	40-140			
Isophorone	1.39	0.34	mg/Kg wet	1.67		83.6	40-140			
2-Methylnaphthalene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
2-Methylphenol	1.38	0.34	mg/Kg wet	1.67		82.6	30-130			
3/4-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.5	30-130			
Naphthalene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Nitrobenzene	1.33	0.34	mg/Kg wet	1.67		79.5	40-140			
2-Nitrophenol	1.32	0.34	mg/Kg wet	1.67		79.1	30-130			
4-Nitrophenol	1.73	0.66	mg/Kg wet	1.67		104	15-140			V-05 †
Pentachlorophenol	0.917	0.34	mg/Kg wet	1.67		55.0	30-130			
Phenanthrene	1.51	0.17	mg/Kg wet	1.67		90.5	40-140			
Phenol	1.27	0.34	mg/Kg wet	1.67		76.1	15-140			†
Pyrene	1.59	0.17	mg/Kg wet	1.67		95.6	40-140			
1,2,4-Trichlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.2	40-140			
2,4,5-Trichlorophenol	1.54	0.34	mg/Kg wet	1.67		92.7	30-130			
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.9	30-130			
Surrogate: 2-Fluorophenol	5.34		mg/Kg wet	6.67		80.1	30-130			
Surrogate: Phenol-d6	5.53		mg/Kg wet	6.67		83.0	30-130			
Surrogate: Nitrobenzene-d5	2.70		mg/Kg wet	3.33		81.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.64		mg/Kg wet	3.33		79.2	30-130			
Surrogate: 2,4,6-Tribromophenol	8.26		mg/Kg wet	6.67		124	30-130			
Surrogate: Terphenyl-d14	3.48		mg/Kg wet	3.33		104	30-130			

LCS Dup (B065586-BS1)

Prepared: 01/03/13 Analyzed: 01/04/13

Acenaphthene	1.59	0.17	mg/Kg wet	1.67		95.5	40-140	10.5	30	
Acenaphthylene	1.55	0.17	mg/Kg wet	1.67		93.2	40-140	9.42	30	
Acetophenone	1.39	0.34	mg/Kg wet	1.67		83.6	40-140	11.9	30	
Aniline	1.04	0.34	mg/Kg wet	1.67		62.7	40-140	16.2	30	
Anthracene	1.67	0.17	mg/Kg wet	1.67		100	40-140	9.99	30	
Benzo(a)anthracene	1.74	0.17	mg/Kg wet	1.67		104	40-140	9.65	30	
Benzo(a)pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140	6.79	30	
Benzo(b)fluoranthene	1.71	0.17	mg/Kg wet	1.67		102	40-140	8.11	30	
Benzo(g,h,i)perylene	1.95	0.17	mg/Kg wet	1.67		117	40-140	13.4	30	
Benzo(k)fluoranthene	1.71	0.17	mg/Kg wet	1.67		103	40-140	10.1	30	
Bis(2-chloroethoxy)methane	1.56	0.34	mg/Kg wet	1.67		93.7	40-140	7.55	30	
Bis(2-chloroethyl)ether	1.48	0.34	mg/Kg wet	1.67		88.7	40-140	11.0	30	
Bis(2-chloroisopropyl)ether	1.51	0.34	mg/Kg wet	1.67		90.7	40-140	13.6	30	
Bis(2-Ethylhexyl)phthalate	1.84	0.34	mg/Kg wet	1.67		110	40-140	12.3	30	
4-Bromophenylphenylether	1.67	0.34	mg/Kg wet	1.67		100	40-140	15.1	30	
Butylbenzylphthalate	1.68	0.66	mg/Kg wet	1.67		101	40-140	5.37	30	
4-Chloroaniline	1.35	0.66	mg/Kg wet	1.67		80.9	15-140	10.5	30	†
2-Chloronaphthalene	1.31	0.34	mg/Kg wet	1.67		78.7	40-140	3.18	30	
2-Chlorophenol	1.38	0.34	mg/Kg wet	1.67		82.9	30-130	7.15	30	
Chrysene	1.64	0.17	mg/Kg wet	1.67		98.3	40-140	8.31	30	
Dibenz(a,h)anthracene	1.84	0.17	mg/Kg wet	1.67		110	40-140	9.95	30	
Dibenzofuran	1.62	0.34	mg/Kg wet	1.67		97.1	40-140	10.2	30	
Di-n-butylphthalate	1.65	0.34	mg/Kg wet	1.67		98.8	40-140	6.56	30	
1,2-Dichlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.1	40-140	9.44	30	
1,3-Dichlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	11.9	30	
1,4-Dichlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.4	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
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Batch B065586 - SW-846 3546

LCS Dup (B065586-BSD1)

Prepared: 01/03/13 Analyzed: 01/04/13

3,3-Dichlorobenzidine	1.41	0.17	mg/Kg wet	1.67		84.4	40-140	12.8	30	
2,4-Dichlorophenol	1.53	0.34	mg/Kg wet	1.67		91.6	30-130	9.10	30	
Diethylphthalate	1.77	0.34	mg/Kg wet	1.67		106	40-140	6.13	30	
2,4-Dimethylphenol	1.62	0.34	mg/Kg wet	1.67		97.3	30-130	8.68	30	
Dimethylphthalate	1.74	0.66	mg/Kg wet	1.67		104	40-140	8.90	30	
2,4-Dinitrophenol	0.476	0.66	mg/Kg wet	1.67		28.6	15-140	11.7	30	V-04 †
2,4-Dinitrotoluene	1.93	0.34	mg/Kg wet	1.67		116	40-140	5.15	30	
2,6-Dinitrotoluene	1.86	0.34	mg/Kg wet	1.67		111	40-140	6.59	30	
Di-n-octylphthalate	1.96	0.66	mg/Kg wet	1.67		117	40-140	18.1	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.56	0.34	mg/Kg wet	1.67		93.9	40-140	13.1	30	
Fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140	0.00	30	
Fluorene	1.75	0.17	mg/Kg wet	1.67		105	40-140	9.15	30	
Hexachlorobenzene	1.68	0.34	mg/Kg wet	1.67		101	40-140	12.5	30	
Hexachlorobutadiene	1.51	0.34	mg/Kg wet	1.67		90.8	40-140	13.2	30	
Hexachloroethane	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	15.0	30	
Indeno(1,2,3-cd)pyrene	1.91	0.17	mg/Kg wet	1.67		115	40-140	14.6	30	
Isophorone	1.58	0.34	mg/Kg wet	1.67		94.5	40-140	12.2	30	
2-Methylnaphthalene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140	8.70	30	
2-Methylphenol	1.48	0.34	mg/Kg wet	1.67		88.7	30-130	7.17	30	
3/4-Methylphenol	1.33	0.34	mg/Kg wet	1.67		79.6	30-130	5.31	30	
Naphthalene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140	9.51	30	
Nitrobenzene	1.47	0.34	mg/Kg wet	1.67		87.9	40-140	10.0	30	
2-Nitrophenol	1.47	0.34	mg/Kg wet	1.67		88.4	30-130	11.1	30	
4-Nitrophenol	1.73	0.66	mg/Kg wet	1.67		104	15-140	0.0193	30	V-05 †
Pentachlorophenol	1.08	0.34	mg/Kg wet	1.67		64.7	30-130	16.1	30	
Phenanthrene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140	9.60	30	
Phenol	1.35	0.34	mg/Kg wet	1.67		81.2	15-140	6.54	30	†
Pyrene	1.68	0.17	mg/Kg wet	1.67		101	40-140	5.33	30	
1,2,4-Trichlorobenzene	1.54	0.34	mg/Kg wet	1.67		92.4	40-140	12.9	30	
2,4,5-Trichlorophenol	1.62	0.34	mg/Kg wet	1.67		97.1	30-130	4.64	30	
2,4,6-Trichlorophenol	1.58	0.34	mg/Kg wet	1.67		95.0	30-130	10.1	30	
Surrogate: 2-Fluorophenol	5.44		mg/Kg wet	6.67		81.6	30-130			
Surrogate: Phenol-d6	5.45		mg/Kg wet	6.67		81.8	30-130			
Surrogate: Nitrobenzene-d5	2.80		mg/Kg wet	3.33		84.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.77		mg/Kg wet	3.33		83.2	30-130			
Surrogate: 2,4,6-Tribromophenol	8.07		mg/Kg wet	6.67		121	30-130			
Surrogate: Terphenyl-d14	3.39		mg/Kg wet	3.33		102	30-130			

Matrix Spike (B065586-MS1)

Source: 12L0841-01

Prepared: 01/03/13 Analyzed: 01/04/13

Acenaphthene	1.52	0.19	mg/Kg dry	1.86	ND	81.5	40-140			
Acenaphthylene	1.53	0.19	mg/Kg dry	1.86	ND	82.2	40-140			
Acetophenone	1.48	0.38	mg/Kg dry	1.86	ND	79.3	40-140			
Aniline	1.18	0.38	mg/Kg dry	1.86	ND	63.3	40-140			
Anthracene	1.61	0.19	mg/Kg dry	1.86	ND	86.5	40-140			
Benzo(a)anthracene	1.61	0.19	mg/Kg dry	1.86	ND	86.4	40-140			
Benzo(a)pyrene	1.60	0.19	mg/Kg dry	1.86	ND	85.8	40-140			
Benzo(b)fluoranthene	1.91	0.19	mg/Kg dry	1.86	ND	103	40-140			
Benzo(g,h,i)perylene	1.12	0.19	mg/Kg dry	1.86	ND	59.8	40-140			
Benzo(k)fluoranthene	1.82	0.19	mg/Kg dry	1.86	ND	97.4	40-140			
Bis(2-chloroethoxy)methane	1.46	0.38	mg/Kg dry	1.86	ND	78.3	40-140			
Bis(2-chloroethyl)ether	1.44	0.38	mg/Kg dry	1.86	ND	77.4	40-140			
Bis(2-chloroisopropyl)ether	1.54	0.38	mg/Kg dry	1.86	ND	82.4	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 B065586 - SW-846 3546										
Matrix Spike (B065586-MS1)	Source: 12L0841-01			Prepared: 01/03/13 Analyzed: 01/04/13						
Bis(2-Ethylhexyl)phthalate	2.42	0.38	mg/Kg dry	1.86	0.717	91.2	40-140			
4-Bromophenylphenylether	1.92	0.38	mg/Kg dry	1.86	ND	103	40-140			
Butylbenzylphthalate	1.64	0.74	mg/Kg dry	1.86	ND	87.9	40-140			
4-Chloroaniline	0.926	0.74	mg/Kg dry	1.86	ND	49.7	40-140			
2-Chloronaphthalene	1.59	0.38	mg/Kg dry	1.86	ND	85.5	40-140			
2-Chlorophenol	1.50	0.38	mg/Kg dry	1.86	ND	80.3	30-130			
Chrysene	1.58	0.19	mg/Kg dry	1.86	ND	84.8	40-140			
Dibenz(a,h)anthracene	1.11	0.19	mg/Kg dry	1.86	ND	59.7	40-140			
Dibenzofuran	1.43	0.38	mg/Kg dry	1.86	ND	76.7	40-140			
Di-n-butylphthalate	1.45	0.38	mg/Kg dry	1.86	ND	78.0	40-140			
1,2-Dichlorobenzene	1.31	0.38	mg/Kg dry	1.86	ND	70.3	40-140			
1,3-Dichlorobenzene	1.19	0.38	mg/Kg dry	1.86	ND	63.7	40-140			
1,4-Dichlorobenzene	1.18	0.38	mg/Kg dry	1.86	ND	63.5	40-140			
3,3-Dichlorobenzidine	1.19	0.19	mg/Kg dry	1.86	ND	63.8	40-140			
2,4-Dichlorophenol	1.56	0.38	mg/Kg dry	1.86	ND	83.6	30-130			
Diethylphthalate	1.35	0.38	mg/Kg dry	1.86	ND	72.4	40-140			
2,4-Dimethylphenol	1.63	0.38	mg/Kg dry	1.86	ND	87.4	30-130			
Dimethylphthalate	1.72	0.74	mg/Kg dry	1.86	ND	92.1	40-140			
2,4-Dinitrophenol	0.125	0.74	mg/Kg dry	1.86	ND	6.68 *	30-130			MS-09, V-04
2,4-Dinitrotoluene	1.07	0.38	mg/Kg dry	1.86	ND	57.4	40-140			
2,6-Dinitrotoluene	1.47	0.38	mg/Kg dry	1.86	ND	78.6	40-140			
Di-n-octylphthalate	2.99	0.74	mg/Kg dry	1.86	ND	161 *	40-140			MS-22
1,2-Diphenylhydrazine (as Azobenzene)	2.13	0.38	mg/Kg dry	1.86	ND	114	40-140			
Fluoranthene	1.99	0.19	mg/Kg dry	1.86	ND	106	40-140			
Fluorene	1.32	0.19	mg/Kg dry	1.86	ND	70.9	40-140			
Hexachlorobenzene	1.74	0.38	mg/Kg dry	1.86	ND	93.5	40-140			
Hexachlorobutadiene	1.36	0.38	mg/Kg dry	1.86	ND	72.8	40-140			
Hexachloroethane	1.14	0.38	mg/Kg dry	1.86	ND	61.4	40-140			
Indeno(1,2,3-cd)pyrene	1.13	0.19	mg/Kg dry	1.86	ND	60.5	40-140			
Isophorone	1.57	0.38	mg/Kg dry	1.86	ND	84.1	40-140			
2-Methylnaphthalene	1.37	0.19	mg/Kg dry	1.86	ND	73.3	40-140			
2-Methylphenol	1.67	0.38	mg/Kg dry	1.86	ND	89.8	30-130			
3/4-Methylphenol	1.67	0.38	mg/Kg dry	1.86	ND	89.5	30-130			
Naphthalene	1.34	0.19	mg/Kg dry	1.86	ND	71.8	40-140			
Nitrobenzene	1.25	0.38	mg/Kg dry	1.86	ND	66.9	40-140			
2-Nitrophenol	1.18	0.38	mg/Kg dry	1.86	ND	63.5	30-130			
4-Nitrophenol	1.04	0.74	mg/Kg dry	1.86	ND	55.7	30-130			V-05
Pentachlorophenol	1.42	0.38	mg/Kg dry	1.86	ND	76.3	30-130			
Phenanthrene	1.60	0.19	mg/Kg dry	1.86	ND	85.7	40-140			
Phenol	1.55	0.38	mg/Kg dry	1.86	ND	83.2	30-130			
Pyrene	1.49	0.19	mg/Kg dry	1.86	ND	80.0	40-140			
1,2,4-Trichlorobenzene	1.36	0.38	mg/Kg dry	1.86	ND	73.2	40-140			
2,4,5-Trichlorophenol	1.68	0.38	mg/Kg dry	1.86	ND	90.1	30-130			
2,4,6-Trichlorophenol	1.83	0.38	mg/Kg dry	1.86	ND	98.1	30-130			
Surrogate: 2-Fluorophenol	5.42		mg/Kg dry	7.46		72.6	30-130			
Surrogate: Phenol-d6	6.42		mg/Kg dry	7.46		86.1	30-130			
Surrogate: Nitrobenzene-d5	2.47		mg/Kg dry	3.73		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	3.54		mg/Kg dry	3.73		95.0	30-130			
Surrogate: 2,4,6-Tribromophenol	4.76		mg/Kg dry	7.46		63.8	30-130			
Surrogate: Terphenyl-d14	2.99		mg/Kg dry	3.73		80.1	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 B065586 - SW-846 3546										
Matrix Spike Dup (B065586-MSD1)										
		Source: 12L0841-01			Prepared: 01/03/13 Analyzed: 01/04/13					
Acenaphthene	1.29	0.19	mg/Kg dry	1.86	ND	69.1	40-140	16.5	30	
Acenaphthylene	1.27	0.19	mg/Kg dry	1.86	ND	67.9	40-140	19.0	30	
Acetophenone	1.23	0.38	mg/Kg dry	1.86	ND	66.0	40-140	18.3	30	
Aniline	0.954	0.38	mg/Kg dry	1.86	ND	51.2	40-140	21.2	30	
Anthracene	1.35	0.19	mg/Kg dry	1.86	ND	72.5	40-140	17.7	30	
Benzo(a)anthracene	1.40	0.19	mg/Kg dry	1.86	ND	75.2	40-140	13.9	30	
Benzo(a)pyrene	1.36	0.19	mg/Kg dry	1.86	ND	72.8	40-140	16.4	30	
Benzo(b)fluoranthene	1.57	0.19	mg/Kg dry	1.86	ND	84.1	40-140	19.8	30	
Benzo(g,h,i)perylene	1.07	0.19	mg/Kg dry	1.86	ND	57.5	40-140	4.02	30	
Benzo(k)fluoranthene	1.50	0.19	mg/Kg dry	1.86	ND	80.2	40-140	19.4	30	
Bis(2-chloroethoxy)methane	1.29	0.38	mg/Kg dry	1.86	ND	69.1	40-140	12.4	30	
Bis(2-chloroethyl)ether	1.26	0.38	mg/Kg dry	1.86	ND	67.4	40-140	13.7	30	
Bis(2-chloroisopropyl)ether	1.27	0.38	mg/Kg dry	1.86	ND	67.9	40-140	19.3	30	
Bis(2-Ethylhexyl)phthalate	2.02	0.38	mg/Kg dry	1.86	0.717	69.8	40-140	18.0	30	
4-Bromophenylphenylether	1.54	0.38	mg/Kg dry	1.86	ND	82.6	40-140	21.9	30	
Butylbenzylphthalate	1.36	0.74	mg/Kg dry	1.86	ND	73.2	40-140	18.2	30	
4-Chloroaniline	0.963	0.74	mg/Kg dry	1.86	ND	51.7	40-140	3.95	30	
2-Chloronaphthalene	1.22	0.38	mg/Kg dry	1.86	ND	65.6	40-140	26.3	30	
2-Chlorophenol	1.24	0.38	mg/Kg dry	1.86	ND	66.6	30-130	18.6	30	
Chrysene	1.35	0.19	mg/Kg dry	1.86	ND	72.7	40-140	15.4	30	
Dibenz(a,h)anthracene	1.09	0.19	mg/Kg dry	1.86	ND	58.4	40-140	2.27	30	
Dibenzofuran	1.22	0.38	mg/Kg dry	1.86	ND	65.4	40-140	16.0	30	
Di-n-butylphthalate	1.26	0.38	mg/Kg dry	1.86	ND	67.5	40-140	14.3	30	
1,2-Dichlorobenzene	1.05	0.38	mg/Kg dry	1.86	ND	56.2	40-140	22.3	30	
1,3-Dichlorobenzene	0.973	0.38	mg/Kg dry	1.86	ND	52.2	40-140	19.9	30	
1,4-Dichlorobenzene	0.971	0.38	mg/Kg dry	1.86	ND	52.1	40-140	19.8	30	
3,3-Dichlorobenzidine	1.21	0.19	mg/Kg dry	1.86	ND	65.0	40-140	1.86	30	
2,4-Dichlorophenol	1.31	0.38	mg/Kg dry	1.86	ND	70.1	30-130	17.5	30	
Diethylphthalate	1.15	0.38	mg/Kg dry	1.86	ND	61.6	40-140	16.1	30	
2,4-Dimethylphenol	1.41	0.38	mg/Kg dry	1.86	ND	75.5	30-130	14.6	30	
Dimethylphthalate	1.40	0.74	mg/Kg dry	1.86	ND	75.0	40-140	20.5	30	
2,4-Dinitrophenol	0.123	0.74	mg/Kg dry	1.86	ND	6.58	* 30-130	1.51	30	MS-09, V-04
2,4-Dinitrotoluene	0.983	0.38	mg/Kg dry	1.86	ND	52.7	40-140	8.43	30	
2,6-Dinitrotoluene	1.25	0.38	mg/Kg dry	1.86	ND	66.9	40-140	16.1	30	
Di-n-octylphthalate	2.37	0.74	mg/Kg dry	1.86	ND	127	40-140	23.3	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.68	0.38	mg/Kg dry	1.86	ND	90.1	40-140	23.7	30	
Fluoranthene	1.71	0.19	mg/Kg dry	1.86	ND	91.7	40-140	14.9	30	
Fluorene	1.15	0.19	mg/Kg dry	1.86	ND	61.6	40-140	14.0	30	
Hexachlorobenzene	1.49	0.38	mg/Kg dry	1.86	ND	80.1	40-140	15.5	30	
Hexachlorobutadiene	1.15	0.38	mg/Kg dry	1.86	ND	61.8	40-140	16.3	30	
Hexachloroethane	0.906	0.38	mg/Kg dry	1.86	ND	48.6	40-140	23.2	30	
Indeno(1,2,3-cd)pyrene	1.10	0.19	mg/Kg dry	1.86	ND	59.1	40-140	2.47	30	
Isophorone	1.33	0.38	mg/Kg dry	1.86	ND	71.3	40-140	16.4	30	
2-Methylnaphthalene	1.16	0.19	mg/Kg dry	1.86	ND	62.1	40-140	16.5	30	
2-Methylphenol	1.34	0.38	mg/Kg dry	1.86	ND	71.7	30-130	22.4	30	
3/4-Methylphenol	1.39	0.38	mg/Kg dry	1.86	ND	74.6	30-130	18.1	30	
Naphthalene	1.14	0.19	mg/Kg dry	1.86	ND	60.9	40-140	16.4	30	
Nitrobenzene	1.10	0.38	mg/Kg dry	1.86	ND	59.0	40-140	12.5	30	
2-Nitrophenol	0.999	0.38	mg/Kg dry	1.86	ND	53.6	30-130	16.9	30	
4-Nitrophenol	1.00	0.74	mg/Kg dry	1.86	ND	53.9	30-130	3.29	30	V-05
Pentachlorophenol	1.19	0.38	mg/Kg dry	1.86	ND	63.9	30-130	17.7	30	
Phenanthrene	1.38	0.19	mg/Kg dry	1.86	ND	73.9	40-140	14.8	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
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Batch B065586 - SW-846 3546

Matrix Spike Dup (B065586-MSD1)

Source: 12L0841-01

Prepared: 01/03/13 Analyzed: 01/04/13

Phenol	1.33	0.38	mg/Kg dry	1.86	ND	71.1	30-130	15.6	30	
Pyrene	1.30	0.19	mg/Kg dry	1.86	ND	69.8	40-140	13.6	30	
1,2,4-Trichlorobenzene	1.13	0.38	mg/Kg dry	1.86	ND	60.9	40-140	18.3	30	
2,4,5-Trichlorophenol	1.42	0.38	mg/Kg dry	1.86	ND	76.1	30-130	16.9	30	
2,4,6-Trichlorophenol	1.47	0.38	mg/Kg dry	1.86	ND	78.9	30-130	21.7	30	
Surrogate: 2-Fluorophenol	5.15		mg/Kg dry	7.46		69.0	30-130			
Surrogate: Phenol-d6	5.65		mg/Kg dry	7.46		75.7	30-130			
Surrogate: Nitrobenzene-d5	2.28		mg/Kg dry	3.73		61.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.95		mg/Kg dry	3.73		79.1	30-130			
Surrogate: 2,4,6-Tribromophenol	4.78		mg/Kg dry	7.46		64.0	30-130			
Surrogate: Terphenyl-d14	2.74		mg/Kg dry	3.73		73.4	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B065491 - SW-846 3545

Blank (B065491-BLK1)

Prepared: 12/31/12 Analyzed: 01/03/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.151		mg/Kg wet	0.200		75.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.0	30-150			

LCS (B065491-BS1)

Prepared: 12/31/12 Analyzed: 01/03/13

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		91.7	40-140			
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		87.2	40-140			
Surrogate: Decachlorobiphenyl	0.154		mg/Kg wet	0.200		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.155		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg wet	0.200		92.4	30-150			

LCS Dup (B065491-BS1)

Prepared: 12/31/12 Analyzed: 01/03/13

Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105	40-140	0.175	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140	0.280	30	
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		91.3	40-140	0.448	30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		86.7	40-140	0.618	30	
Surrogate: Decachlorobiphenyl	0.141		mg/Kg wet	0.200		70.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.140		mg/Kg wet	0.200		70.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		88.9	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 B065487 - SW-846 3546										
Blank (B065487-BLK1)										
					Prepared: 12/31/12 Analyzed: 01/02/13					
Fuel Oil #2	ND	8.3	mg/Kg wet							
Asphalt	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.29		mg/Kg wet	3.33		68.8	40-140			
LCS (B065487-BS1)										
					Prepared: 12/31/12 Analyzed: 01/02/13					
Fuel Oil #2	23.7	8.3	mg/Kg wet	33.3		71.2	40-140			
Surrogate: o-Terphenyl	1.94		mg/Kg wet	3.33		58.2	40-140			
LCS Dup (B065487-BSD1)										
					Prepared: 12/31/12 Analyzed: 01/02/13					
Fuel Oil #2	27.8	8.3	mg/Kg wet	33.3		83.4	40-140	15.7	25	
Surrogate: o-Terphenyl	2.24		mg/Kg wet	3.33		67.1	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065485 - SW-846 3050B										
Blank (B065485-BLK1)										
Prepared: 12/31/12 Analyzed: 01/02/13										
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 (B065485-BS1)										
Prepared: 12/31/12 Analyzed: 01/02/13										
Arsenic	86.5	5.0	mg/Kg wet	94.5		91.5	82.2-117.5			
Barium	160	5.0	mg/Kg wet	166		96.1	83.1-116.3			
Cadmium	56.6	0.50	mg/Kg wet	59.9		94.4	84-115.9			
Chromium	65.2	1.0	mg/Kg wet	69.3		94.1	81.4-118.6			
Lead	84.0	1.5	mg/Kg wet	91.7		91.6	82.4-117.8			
Selenium	144	10	mg/Kg wet	159		90.7	79.2-120.8			
Silver	33.0	1.0	mg/Kg wet	33.9		97.5	66.4-133.9			
LCS Dup (B065485-BSD1)										
Prepared: 12/31/12 Analyzed: 01/02/13										
Arsenic	84.9	5.0	mg/Kg wet	94.5		89.8	82.2-117.5	1.87	30	
Barium	156	5.0	mg/Kg wet	166		93.7	83.1-116.3	2.57	30	
Cadmium	56.6	0.50	mg/Kg wet	59.9		94.4	84-115.9	0.0302	30	
Chromium	67.2	1.0	mg/Kg wet	69.3		97.0	81.4-118.6	3.04	30	
Lead	80.2	1.5	mg/Kg wet	91.7		87.5	82.4-117.8	4.56	30	
Selenium	139	10	mg/Kg wet	159		87.5	79.2-120.8	3.55	30	
Silver	32.2	1.0	mg/Kg wet	33.9		95.1	66.4-133.9	2.49	30	
Duplicate (B065485-DUP1)										
Source: 12L0841-01										
Prepared: 12/31/12 Analyzed: 01/02/13										
Arsenic	3.52	2.8	mg/Kg dry		3.37			4.45	35	
Barium	26.0	2.8	mg/Kg dry		21.7			18.1	35	
Cadmium	ND	0.28	mg/Kg dry		ND			NC	35	
Chromium	13.3	0.56	mg/Kg dry		10.4			24.4	35	
Lead	2.82	0.84	mg/Kg dry		2.95			4.37	35	
Selenium	ND	5.6	mg/Kg dry		ND			NC	35	
Silver	ND	0.56	mg/Kg dry		ND			NC	35	
MRL Check (B065485-MRL1)										
Prepared: 12/31/12 Analyzed: 01/02/13										
Lead	0.766	0.75	mg/Kg wet	0.749		102	80-120			
Matrix Spike (B065485-MS1)										
Source: 12L0841-01										
Prepared: 12/31/12 Analyzed: 01/02/13										
Arsenic	35.8	2.8	mg/Kg dry	28.0	3.37	116	75-125			
Barium	55.0	2.8	mg/Kg dry	28.0	21.7	119	75-125			
Cadmium	31.8	0.28	mg/Kg dry	28.0	ND	113	75-125			
Chromium	44.3	0.56	mg/Kg dry	28.0	10.4	121	75-125			
Lead	34.6	0.84	mg/Kg dry	28.0	2.95	113	75-125			
Selenium	28.1	5.6	mg/Kg dry	28.0	ND	100	75-125			
Silver	32.8	0.56	mg/Kg dry	28.0	ND	117	75-125			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065498 - SW-846 7471										
Blank (B065498-BLK1)										
					Prepared: 01/02/13 Analyzed: 01/03/13					
Mercury	ND	0.025	mg/Kg wet							
LCS (B065498-BS1)										
					Prepared: 01/02/13 Analyzed: 01/03/13					
Mercury	3.29	0.33	mg/Kg wet	3.73		88.3	71.7-128.3			
LCS Dup (B065498-BSD1)										
					Prepared: 01/02/13 Analyzed: 01/03/13					
Mercury	3.52	0.33	mg/Kg wet	3.73		94.3	71.7-128.3	6.60	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 B065525 - % Solids										
Duplicate (B065525-DUP1)		Source: 12L0841-01			Prepared: 01/02/13 Analyzed: 01/03/13					
% Solids	89.9		% Wt		89.4			0.558	20	
Batch B065529 - SW-846 9030A										
Blank (B065529-BLK1)		Prepared & Analyzed: 01/02/13								
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B065529-BS1)		Prepared & Analyzed: 01/02/13								
Reactive Sulfide	16	2.0	mg/Kg	14.9		107	32.9-140			
Batch B065531 - SW-846 9014										
Blank (B065531-BLK1)		Prepared & Analyzed: 01/02/13								
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B065531-BS1)		Prepared & Analyzed: 01/02/13								
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		93.9	80.1-115			
Batch B065553 - SM18-20 2510B										
Blank (B065553-BLK1)		Prepared & Analyzed: 01/02/13								
Specific conductance	ND	2.0	µmhos/cm							
LCS (B065553-BS1)		Prepared & Analyzed: 01/02/13								
Specific conductance	140	2.0	µmhos/cm	147		94.8	77.3-114			
Duplicate (B065553-DUP1)		Source: 12L0841-01			Prepared & Analyzed: 01/02/13					
Specific conductance	5.3	2.0	µmhos/cm		5.3			0.663	18.9	
Batch B065627 - SW-846 1010										
Blank (B065627-BLK1)		Prepared & Analyzed: 01/03/13								
Flashpoint	> 212 °F		°F							
LCS (B065627-BS1)		Prepared & Analyzed: 01/03/13								
Flashpoint	82		°F	81.0		101	98.8-101			
LCS Dup (B065627-BSD1)		Prepared & Analyzed: 01/03/13								
Flashpoint	81		°F	81.0		99.5	98.8-101	1.11	1.61	

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-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - L-14 Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
 - MS-09 Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
 - MS-22 Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
 - O-32 A five times dilution was performed as part of the standard analytical procedure.
 - S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
 - 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. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
 - V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME,VA
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D 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
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

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



Sample Receipt Checklist

CLIENT NAME: Kleinfelder RECEIVED BY: RKM DATE: 12/28/12

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

2) Does the chain agree with the samples? Yes No
 If not, explain:

3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.3

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

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

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

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	2
500 mL Amber		4 oz amber/clear jar	1
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	3	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 1
 # Bisulfate 2 # DI Water _____
 # Thiosulfate _____

Time and Date Frozen: _____

Doc# 277

Rev. 3 May 2012

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory Project #: 12L0841
 Project Location: Cambridge-Concord Ave. RTN: _____

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
12L0841-01

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 (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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

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

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

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

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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input 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: _____ Michael A. Erickson Position: Laboratory Director
 Printed Name: Michael A. Erickson Date: 01/08/13

January 24, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13A0387

Enclosed are results of analyses for samples received by the laboratory on January 15, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 1/24/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0387

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

PROJECT LOCATION: Cambridge

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B301-0.5-14.5	13A0387-01	Soil		SM 2540G SM18-20 2510B SW-846 1010 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A	

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.

SW-846 8015C

Qualifications:

Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.

Analyte & Samples(s) Qualified:

Asphalt

13A0387-01[B301-0.5-14.5]

SW-846 8082A

Qualifications:

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

Analyte & Samples(s) Qualified:

13A0387-01[B301-0.5-14.5]

SW-846 8260C

Qualifications:

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:

Dichlorodifluoromethane (Freon 12)

B066259-BS1, B066259-BSD1

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

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

13A0387-01[B301-0.5-14.5], B066259-BLK1, B066259-BS1, B066259-BSD1

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

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane, Tetrahydrofuran

13A0387-01[B301-0.5-14.5], B066259-BLK1, B066259-BS1, B066259-BSD1

SW-846 8270D

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, 4-Chloroaniline

13A0387-01[B301-0.5-14.5], B066286-BLK1, B066286-BS1, B066286-BSD1

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

Analyte & Samples(s) Qualified:

4-Nitrophenol

13A0387-01[B301-0.5-14.5], B066286-BLK1, B066286-BS1, B066286-BSD1

SW-846 8260C

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

SW-846 8270D

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.

A handwritten signature in black ink, appearing to read "Daren J. Damboragian", is written over a light gray rectangular background.

Daren J. Damboragian
Laboratory Manager

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Bromomethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Chloroethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Chloromethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0077	mg/Kg dry	1	V-05	SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Diethyl Ether	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Diisopropyl Ether (DIPE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,4-Dioxane	ND	0.077	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Methylene Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
Vinyl Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.4	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	96.5	70-130	

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

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 8270D	1/16/13	1/18/13 20:26	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Butylbenzylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
4-Chloroaniline	ND	0.72	mg/Kg dry	1	R-05	SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Dimethylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1	R-05	SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Di-n-octylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

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	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
4-Nitrophenol	ND	0.72	mg/Kg dry	1	V-05	SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/16/13	1/18/13 20:26	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		79.6	30-130					1/18/13 20:26	
Phenol-d6		74.8	30-130					1/18/13 20:26	
Nitrobenzene-d5		71.5	30-130					1/18/13 20:26	
2-Fluorobiphenyl		77.5	30-130					1/18/13 20:26	
2,4,6-Tribromophenol		93.6	30-130					1/18/13 20:26	
Terphenyl-d14		98.3	30-130					1/18/13 20:26	

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:44	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		80.9	30-150					1/18/13 14:44	
Decachlorobiphenyl [2]		81.0	30-150					1/18/13 14:44	
Tetrachloro-m-xylene [1]		78.9	30-150					1/18/13 14:44	
Tetrachloro-m-xylene [2]		79.9	30-150					1/18/13 14:44	

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Asphalt	57	9.2	mg/Kg dry	1	O-26	SW-846 8015C	1/16/13	1/17/13 14:47	CJM
Surrogates		% Recovery			Flag				
o-Terphenyl		84.9		40-140				1/17/13 14:47	

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

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 6010C	1/15/13	1/16/13 11:48	KSH
Barium	22	2.7	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:48	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:48	KSH
Chromium	10	0.54	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:48	KSH
Lead	4.1	0.81	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:48	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/15/13	1/16/13 12:18	SAJ
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:48	KSH
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:48	KSH

Project Location: Cambridge

Sample Description:

Work Order: 13A0387

Date Received: 1/15/2013

Field Sample #: B301-0.5-14.5

Sampled: 1/10/2013 13:00

Sample ID: 13A0387-01

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	1/17/13	1/17/13 15:58	CM
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	1/16/13	1/17/13 10:00	LL
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	1/16/13	1/17/13 10:20	LL
Specific conductance	20	2.0	µmhos/cm	1		SM18-20 2510B	1/17/13	1/17/13 15:00	CM
% Solids	90.9		% Wt	1		SM 2540G	1/16/13	1/17/13 10:38	RH

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0387-01 [B301-0.5-14.5]	B066241	01/16/13

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
13A0387-01 [B301-0.5-14.5]	B066345	1.00	01/17/13

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066348	50.0	50.0	01/17/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066227	1.01	50.0	01/15/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066229	0.609	50.0	01/15/13

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066240	30.0	1.00	01/16/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066294	10.3	10.0	01/17/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066259	7.17	10.0	01/16/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066286	30.2	1.00	01/16/13

Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066274	25.9	250	01/16/13

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0387-01 [B301-0.5-14.5]	B066275	25.9	250	01/16/13

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 B066259 - SW-846 5035

Blank (B066259-BLK1)

Prepared & Analyzed: 01/16/13

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	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	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
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Batch B066259 - SW-846 5035

Blank (B066259-BLK1)

Prepared & Analyzed: 01/16/13

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	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0482		mg/Kg wet	0.0500		96.5	70-130			

LCS (B066259-BS1)

Prepared & Analyzed: 01/16/13

Acetone	0.183	0.10	mg/Kg wet	0.200		91.6	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Benzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromochloromethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromodichloromethane	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130			
Bromoform	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Bromomethane	0.0160	0.010	mg/Kg wet	0.0200		79.9	40-160			†
2-Butanone (MEK)	0.213	0.040	mg/Kg wet	0.200		107	40-160			†
n-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
sec-Butylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Carbon Disulfide	0.0173	0.0060	mg/Kg wet	0.0200		86.5	70-130			
Carbon Tetrachloride	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Chlorodibromomethane	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130			
Chloroethane	0.0178	0.010	mg/Kg wet	0.0200		89.0	70-130			
Chloroform	0.0201	0.0040	mg/Kg wet	0.0200		100	70-130			
Chloromethane	0.0227	0.010	mg/Kg wet	0.0200		113	40-160			†
2-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
4-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			V-16
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.0200		98.8	70-130			
Dibromomethane	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
1,2-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	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 B066259 - SW-846 5035										
LCS (B066259-BS1)										
Prepared & Analyzed: 01/16/13										
Dichlorodifluoromethane (Freon 12)	0.0135	0.010	mg/Kg wet	0.0200		67.6	40-160			L-14, V-05 †
1,1-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloroethane	0.0170	0.0020	mg/Kg wet	0.0200		84.8	70-130			
1,1-Dichloroethylene	0.0170	0.0040	mg/Kg wet	0.0200		84.8	70-130			
cis-1,2-Dichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,2-Dichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
2,2-Dichloropropane	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
1,1-Dichloropropene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
cis-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130			
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.3	70-130			
Diethyl Ether	0.0171	0.010	mg/Kg wet	0.0200		85.7	70-130			
Diisopropyl Ether (DIPE)	0.0250	0.0010	mg/Kg wet	0.0200		125	70-130			
1,4-Dioxane	0.161	0.10	mg/Kg wet	0.200		80.3	40-160			V-16 †
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Hexachlorobutadiene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
2-Hexanone (MBK)	0.215	0.020	mg/Kg wet	0.200		108	40-160			†
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
p-Isopropyltoluene (p-Cymene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Methylene Chloride	0.0216	0.010	mg/Kg wet	0.0200		108	70-130			
4-Methyl-2-pentanone (MIBK)	0.217	0.020	mg/Kg wet	0.200		109	40-160			†
Naphthalene	0.0191	0.0040	mg/Kg wet	0.0200		95.6	70-130			
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Styrene	0.0227	0.0020	mg/Kg wet	0.0200		113	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	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130			
Tetrachloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
Tetrahydrofuran	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			V-16
Toluene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
1,2,3-Trichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,1,1-Trichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0156	0.010	mg/Kg wet	0.0200		78.0	70-130			
1,2,3-Trichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3,5-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Vinyl Chloride	0.0164	0.010	mg/Kg wet	0.0200		81.8	70-130			
m+p Xylene	0.0419	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0483		mg/Kg wet	0.0500		96.6	70-130			
Surrogate: Toluene-d8	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		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 B066259 - SW-846 5035										
LCS Dup (B066259-BSD1)										
Prepared & Analyzed: 01/16/13										
Acetone	0.185	0.10	mg/Kg wet	0.200		92.6	40-160	1.17	20	†
tert-Amyl Methyl Ether (TAME)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130	0.199	20	
Benzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	3.67	20	
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.472	20	
Bromochloromethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	4.04	20	
Bromodichloromethane	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130	1.17	20	
Bromoform	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	0.109	20	
Bromomethane	0.0174	0.010	mg/Kg wet	0.0200		87.0	40-160	8.51	20	†
2-Butanone (MEK)	0.217	0.040	mg/Kg wet	0.200		109	40-160	1.83	20	†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.461	20	
sec-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	0.701	20	
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.66	20	
tert-Butyl Ethyl Ether (TBEE)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130	2.55	20	
Carbon Disulfide	0.0181	0.0060	mg/Kg wet	0.0200		90.3	70-130	4.30	20	
Carbon Tetrachloride	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130	1.58	20	
Chlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.98	20	
Chlorodibromomethane	0.0170	0.0010	mg/Kg wet	0.0200		85.1	70-130	4.70	20	
Chloroethane	0.0185	0.010	mg/Kg wet	0.0200		92.7	70-130	4.07	20	
Chloroform	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.298	20	
Chloromethane	0.0227	0.010	mg/Kg wet	0.0200		113	40-160	0.00	20	†
2-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.06	20	
4-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.746	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130	0.332	20	V-16
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	1.84	20	
Dibromomethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	2.70	20	
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.56	20	
1,3-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.379	20	
1,4-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.68	20	
Dichlorodifluoromethane (Freon 12)	0.0138	0.010	mg/Kg wet	0.0200		69.1	40-160	2.19	20	L-14, V-05
1,1-Dichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	1.82	20	
1,2-Dichloroethane	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130	1.52	20	
1,1-Dichloroethylene	0.0172	0.0040	mg/Kg wet	0.0200		86.2	70-130	1.64	20	
cis-1,2-Dichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	2.24	20	
trans-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	3.47	20	
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.91	20	
1,3-Dichloropropane	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130	0.401	20	
2,2-Dichloropropane	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130	2.36	20	
1,1-Dichloropropene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.96	20	
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130	0.336	20	
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.6	70-130	0.328	20	
Diethyl Ether	0.0177	0.010	mg/Kg wet	0.0200		88.3	70-130	2.99	20	
Diisopropyl Ether (DIPE)	0.0252	0.0010	mg/Kg wet	0.0200		126	70-130	0.638	20	
1,4-Dioxane	0.186	0.10	mg/Kg wet	0.200		92.8	40-160	14.5	20	V-16
Ethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.926	20	
Hexachlorobutadiene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	1.39	20	
2-Hexanone (MBK)	0.217	0.020	mg/Kg wet	0.200		108	40-160	0.722	20	†
Isopropylbenzene (Cumene)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	3.08	20	
p-Isopropyltoluene (p-Cymene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.59	20	
Methyl tert-Butyl Ether (MTBE)	0.0205	0.0040	mg/Kg wet	0.0200		103	70-130	1.77	20	
Methylene Chloride	0.0219	0.010	mg/Kg wet	0.0200		109	70-130	1.10	20	
4-Methyl-2-pentanone (MIBK)	0.221	0.020	mg/Kg wet	0.200		111	40-160	1.76	20	†
Naphthalene	0.0196	0.0040	mg/Kg wet	0.0200		97.9	70-130	2.38	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 B066259 - SW-846 5035										
LCS Dup (B066259-BSD1)										
Prepared & Analyzed: 01/16/13										
n-Propylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	2.33	20	
Styrene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.176	20	
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.06	20	
1,1,2,2-Tetrachloroethane	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130	1.04	20	
Tetrachloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	1.56	20	
Tetrahydrofuran	0.0216	0.010	mg/Kg wet	0.0200		108	70-130	3.68	20	V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	0.424	20	
1,2,3-Trichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	2.48	20	
1,2,4-Trichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	1.01	20	
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	2.11	20	
1,1,2-Trichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	1.47	20	
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130	0.428	20	
Trichlorofluoromethane (Freon 11)	0.0163	0.010	mg/Kg wet	0.0200		81.5	70-130	4.39	20	
1,2,3-Trichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.46	20	
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.286	20	
1,3,5-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.87	20	
Vinyl Chloride	0.0169	0.010	mg/Kg wet	0.0200		84.4	70-130	3.13	20	
m+p Xylene	0.0425	0.0040	mg/Kg wet	0.0400		106	70-130	1.33	20	
o-Xylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.478	20	
Surrogate: 1,2-Dichloroethane-d4	0.0481		mg/Kg wet	0.0500		96.2	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	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 B066286 - SW-846 3546

Blank (B066286-BLK1)

Prepared: 01/16/13 Analyzed: 01/18/13

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							R-05
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							R-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							
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							V-05
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
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Batch B066286 - SW-846 3546

Blank (B066286-BLK1)

Prepared: 01/16/13 Analyzed: 01/18/13

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	6.32		mg/Kg wet	6.67		94.8	30-130			
Surrogate: Phenol-d6	6.67		mg/Kg wet	6.67		100	30-130			
Surrogate: Nitrobenzene-d5	3.20		mg/Kg wet	3.33		95.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.16		mg/Kg wet	3.33		94.7	30-130			
Surrogate: 2,4,6-Tribromophenol	7.34		mg/Kg wet	6.67		110	30-130			
Surrogate: Terphenyl-d14	3.81		mg/Kg wet	3.33		114	30-130			

LCS (B066286-BS1)

Prepared: 01/16/13 Analyzed: 01/18/13

Acenaphthene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140			
Acenaphthylene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
Acetophenone	1.41	0.34	mg/Kg wet	1.67		84.6	40-140			
Aniline	1.05	0.34	mg/Kg wet	1.67		62.8	40-140			
Anthracene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140			
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140			
Benzo(a)pyrene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140			
Benzo(b)fluoranthene	1.54	0.17	mg/Kg wet	1.67		92.4	40-140			
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.4	40-140			
Benzo(k)fluoranthene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140			
Bis(2-chloroethoxy)methane	1.44	0.34	mg/Kg wet	1.67		86.4	40-140			
Bis(2-chloroethyl)ether	1.34	0.34	mg/Kg wet	1.67		80.4	40-140			
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.9	40-140			
Bis(2-Ethylhexyl)phthalate	1.57	0.34	mg/Kg wet	1.67		94.1	40-140			
4-Bromophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.5	40-140			
Butylbenzylphthalate	1.56	0.66	mg/Kg wet	1.67		93.6	40-140			
4-Chloroaniline	0.546	0.66	mg/Kg wet	1.67		32.7	15-140			R-05 †
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140			
2-Chlorophenol	1.40	0.34	mg/Kg wet	1.67		84.2	30-130			
Chrysene	1.55	0.17	mg/Kg wet	1.67		92.8	40-140			
Dibenz(a,h)anthracene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Dibenzofuran	1.35	0.34	mg/Kg wet	1.67		81.2	40-140			
Di-n-butylphthalate	1.56	0.34	mg/Kg wet	1.67		93.5	40-140			
1,2-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.9	40-140			
1,3-Dichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.7	40-140			
1,4-Dichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.9	40-140			
3,3-Dichlorobenzidine	1.29	0.17	mg/Kg wet	1.67		77.3	40-140			
2,4-Dichlorophenol	1.41	0.34	mg/Kg wet	1.67		84.8	30-130			
Diethylphthalate	1.45	0.34	mg/Kg wet	1.67		86.8	40-140			
2,4-Dimethylphenol	1.50	0.34	mg/Kg wet	1.67		89.9	30-130			
Dimethylphthalate	1.44	0.66	mg/Kg wet	1.67		86.3	40-140			
2,4-Dinitrophenol	0.859	0.66	mg/Kg wet	1.67		51.5	15-140			R-05 †
2,4-Dinitrotoluene	1.46	0.34	mg/Kg wet	1.67		87.4	40-140			
2,6-Dinitrotoluene	1.48	0.34	mg/Kg wet	1.67		89.0	40-140			
Di-n-octylphthalate	1.57	0.66	mg/Kg wet	1.67		94.1	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
Fluoranthene	1.54	0.17	mg/Kg wet	1.67		92.5	40-140			
Fluorene	1.46	0.17	mg/Kg wet	1.67		87.5	40-140			
Hexachlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.4	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 B066286 - SW-846 3546

LCS (B066286-BS1)

Prepared: 01/16/13 Analyzed: 01/18/13

Hexachlorobutadiene	1.37	0.34	mg/Kg wet	1.67		82.5	40-140			
Hexachloroethane	1.33	0.34	mg/Kg wet	1.67		79.8	40-140			
Indeno(1,2,3-cd)pyrene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Isophorone	1.39	0.34	mg/Kg wet	1.67		83.6	40-140			
2-Methylnaphthalene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140			
2-Methylphenol	1.42	0.34	mg/Kg wet	1.67		84.9	30-130			
3/4-Methylphenol	1.45	0.34	mg/Kg wet	1.67		87.2	30-130			
Naphthalene	1.33	0.17	mg/Kg wet	1.67		79.5	40-140			
Nitrobenzene	1.31	0.34	mg/Kg wet	1.67		78.3	40-140			
2-Nitrophenol	1.41	0.34	mg/Kg wet	1.67		84.8	30-130			
4-Nitrophenol	1.61	0.66	mg/Kg wet	1.67		96.4	15-140			V-05 †
Pentachlorophenol	1.34	0.34	mg/Kg wet	1.67		80.7	30-130			
Phenanthrene	1.44	0.17	mg/Kg wet	1.67		86.1	40-140			
Phenol	1.29	0.34	mg/Kg wet	1.67		77.2	15-140			†
Pyrene	1.44	0.17	mg/Kg wet	1.67		86.7	40-140			
1,2,4-Trichlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.0	40-140			
2,4,5-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.9	30-130			
2,4,6-Trichlorophenol	1.47	0.34	mg/Kg wet	1.67		88.3	30-130			
Surrogate: 2-Fluorophenol	5.74		mg/Kg wet	6.67		86.2	30-130			
Surrogate: Phenol-d6	5.60		mg/Kg wet	6.67		83.9	30-130			
Surrogate: Nitrobenzene-d5	2.77		mg/Kg wet	3.33		83.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.80		mg/Kg wet	3.33		84.1	30-130			
Surrogate: 2,4,6-Tribromophenol	6.79		mg/Kg wet	6.67		102	30-130			
Surrogate: Terphenyl-d14	3.25		mg/Kg wet	3.33		97.4	30-130			

LCS Dup (B066286-BS1)

Prepared: 01/16/13 Analyzed: 01/18/13

Acenaphthene	1.58	0.17	mg/Kg wet	1.67		94.5	40-140	13.9	30	
Acenaphthylene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140	13.8	30	
Acetophenone	1.50	0.34	mg/Kg wet	1.67		90.2	40-140	6.41	30	
Aniline	1.17	0.34	mg/Kg wet	1.67		70.0	40-140	10.9	30	
Anthracene	1.64	0.17	mg/Kg wet	1.67		98.4	40-140	12.5	30	
Benzo(a)anthracene	1.70	0.17	mg/Kg wet	1.67		102	40-140	14.6	30	
Benzo(a)pyrene	1.76	0.17	mg/Kg wet	1.67		106	40-140	13.4	30	
Benzo(b)fluoranthene	1.87	0.17	mg/Kg wet	1.67		112	40-140	19.1	30	
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	4.11	30	
Benzo(k)fluoranthene	1.76	0.17	mg/Kg wet	1.67		106	40-140	12.3	30	
Bis(2-chloroethoxy)methane	1.64	0.34	mg/Kg wet	1.67		98.3	40-140	12.9	30	
Bis(2-chloroethyl)ether	1.50	0.34	mg/Kg wet	1.67		90.2	40-140	11.5	30	
Bis(2-chloroisopropyl)ether	1.43	0.34	mg/Kg wet	1.67		85.6	40-140	18.8	30	
Bis(2-Ethylhexyl)phthalate	1.79	0.34	mg/Kg wet	1.67		108	40-140	13.4	30	
4-Bromophenylphenylether	1.59	0.34	mg/Kg wet	1.67		95.4	40-140	11.0	30	
Butylbenzylphthalate	1.80	0.66	mg/Kg wet	1.67		108	40-140	14.6	30	
4-Chloroaniline	0.743	0.66	mg/Kg wet	1.67		44.6	15-140	30.6 *	30	R-05 †
2-Chloronaphthalene	1.39	0.34	mg/Kg wet	1.67		83.3	40-140	10.7	30	
2-Chlorophenol	1.61	0.34	mg/Kg wet	1.67		96.5	30-130	13.6	30	
Chrysene	1.77	0.17	mg/Kg wet	1.67		106	40-140	13.3	30	
Dibenz(a,h)anthracene	1.47	0.17	mg/Kg wet	1.67		88.0	40-140	2.98	30	
Dibenzofuran	1.57	0.34	mg/Kg wet	1.67		94.0	40-140	14.6	30	
Di-n-butylphthalate	1.80	0.34	mg/Kg wet	1.67		108	40-140	14.4	30	
1,2-Dichlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.4	40-140	11.8	30	
1,3-Dichlorobenzene	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	13.2	30	
1,4-Dichlorobenzene	1.40	0.34	mg/Kg wet	1.67		84.0	40-140	12.8	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 B066286 - SW-846 3546										
LCS Dup (B066286-BSD1)										
					Prepared: 01/16/13 Analyzed: 01/18/13					
3,3-Dichlorobenzidine	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	14.3	30	
2,4-Dichlorophenol	1.61	0.34	mg/Kg wet	1.67		96.4	30-130	12.8	30	
Diethylphthalate	1.77	0.34	mg/Kg wet	1.67		106	40-140	20.1	30	
2,4-Dimethylphenol	1.67	0.34	mg/Kg wet	1.67		100	30-130	10.9	30	
Dimethylphthalate	1.71	0.66	mg/Kg wet	1.67		102	40-140	17.1	30	
2,4-Dinitrophenol	1.24	0.66	mg/Kg wet	1.67		74.4	15-140	36.3 *	30	R-05 †
2,4-Dinitrotoluene	1.79	0.34	mg/Kg wet	1.67		107	40-140	20.4	30	
2,6-Dinitrotoluene	1.79	0.34	mg/Kg wet	1.67		108	40-140	18.9	30	
Di-n-octylphthalate	1.88	0.66	mg/Kg wet	1.67		112	40-140	17.9	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.60	0.34	mg/Kg wet	1.67		95.8	40-140	17.9	30	
Fluoranthene	1.81	0.17	mg/Kg wet	1.67		109	40-140	16.0	30	
Fluorene	1.72	0.17	mg/Kg wet	1.67		103	40-140	16.5	30	
Hexachlorobenzene	1.60	0.34	mg/Kg wet	1.67		95.7	40-140	10.2	30	
Hexachlorobutadiene	1.54	0.34	mg/Kg wet	1.67		92.1	40-140	11.0	30	
Hexachloroethane	1.47	0.34	mg/Kg wet	1.67		88.0	40-140	9.79	30	
Indeno(1,2,3-cd)pyrene	1.43	0.17	mg/Kg wet	1.67		85.9	40-140	1.05	30	
Isophorone	1.57	0.34	mg/Kg wet	1.67		94.5	40-140	12.2	30	
2-Methylnaphthalene	1.52	0.17	mg/Kg wet	1.67		91.3	40-140	12.1	30	
2-Methylphenol	1.58	0.34	mg/Kg wet	1.67		94.8	30-130	11.1	30	
3/4-Methylphenol	1.68	0.34	mg/Kg wet	1.67		101	30-130	14.4	30	
Naphthalene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	11.5	30	
Nitrobenzene	1.50	0.34	mg/Kg wet	1.67		90.0	40-140	13.9	30	
2-Nitrophenol	1.60	0.34	mg/Kg wet	1.67		96.3	30-130	12.7	30	
4-Nitrophenol	1.70	0.66	mg/Kg wet	1.67		102	15-140	5.61	30	V-05 †
Pentachlorophenol	1.70	0.34	mg/Kg wet	1.67		102	30-130	23.1	30	
Phenanthrene	1.63	0.17	mg/Kg wet	1.67		97.7	40-140	12.6	30	
Phenol	1.39	0.34	mg/Kg wet	1.67		83.4	15-140	7.65	30	†
Pyrene	1.66	0.17	mg/Kg wet	1.67		99.9	40-140	14.2	30	
1,2,4-Trichlorobenzene	1.53	0.34	mg/Kg wet	1.67		91.8	40-140	11.3	30	
2,4,5-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		92.0	30-130	19.2	30	
2,4,6-Trichlorophenol	1.68	0.34	mg/Kg wet	1.67		101	30-130	13.4	30	
Surrogate: 2-Fluorophenol	5.99		mg/Kg wet	6.67		89.9	30-130			
Surrogate: Phenol-d6	5.88		mg/Kg wet	6.67		88.2	30-130			
Surrogate: Nitrobenzene-d5	3.06		mg/Kg wet	3.33		91.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.03		mg/Kg wet	3.33		91.0	30-130			
Surrogate: 2,4,6-Tribromophenol	8.26		mg/Kg wet	6.67		124	30-130			
Surrogate: Terphenyl-d14	3.63		mg/Kg wet	3.33		109	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B066294 - SW-846 3546										
Blank (B066294-BLK1)										
Prepared: 01/17/13 Analyzed: 01/18/13										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.171		mg/Kg wet	0.200		85.5	30-150			
LCS (B066294-BS1)										
Prepared: 01/17/13 Analyzed: 01/18/13										
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		97.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.200		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.1	30-150			
LCS Dup (B066294-BSD1)										
Prepared: 01/17/13 Analyzed: 01/18/13										
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		96.6	40-140	8.30	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		99.7	40-140	8.61	30	
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		94.8	40-140	9.66	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		97.6	40-140	9.33	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.200		81.4	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 B066240 - SW-846 3546										
Blank (B066240-BLK1)										
					Prepared: 01/16/13 Analyzed: 01/17/13					
Asphalt	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.67		mg/Kg wet	3.33		80.1	40-140			
LCS (B066240-BS1)										
					Prepared: 01/16/13 Analyzed: 01/17/13					
Fuel Oil #2	29.0	8.3	mg/Kg wet	33.3		87.0	40-140			
Surrogate: o-Terphenyl	2.61		mg/Kg wet	3.33		78.4	40-140			
LCS Dup (B066240-BSD1)										
					Prepared: 01/16/13 Analyzed: 01/17/13					
Fuel Oil #2	28.2	8.3	mg/Kg wet	33.3		84.7	40-140	2.59	25	
Surrogate: o-Terphenyl	2.53		mg/Kg wet	3.33		75.9	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B066227 - SW-846 3050B										
Blank (B066227-BLK1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
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 (B066227-BS1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Arsenic	97.5	5.0	mg/Kg wet	94.5		103	82.2-117.5			
Barium	171	5.0	mg/Kg wet	166		103	83.1-116.3			
Cadmium	61.6	0.50	mg/Kg wet	59.9		103	84-115.9			
Chromium	71.9	0.99	mg/Kg wet	69.3		104	81.4-118.6			
Lead	86.8	1.5	mg/Kg wet	91.7		94.6	82.4-117.8			
Selenium	162	9.9	mg/Kg wet	159		102	79.2-120.8			
Silver	32.6	0.99	mg/Kg wet	33.9		96.1	66.4-133.9			
LCS Dup (B066227-BSD1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Arsenic	97.9	5.0	mg/Kg wet	94.5		104	82.2-117.5	0.421	30	
Barium	174	5.0	mg/Kg wet	166		105	83.1-116.3	1.69	30	
Cadmium	60.5	0.50	mg/Kg wet	59.9		101	84-115.9	1.94	30	
Chromium	72.8	1.0	mg/Kg wet	69.3		105	81.4-118.6	1.19	30	
Lead	87.5	1.5	mg/Kg wet	91.7		95.5	82.4-117.8	0.874	30	
Selenium	162	10	mg/Kg wet	159		102	79.2-120.8	0.198	30	
Silver	33.3	1.0	mg/Kg wet	33.9		98.3	66.4-133.9	2.24	30	
MRL Check (B066227-MRL1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Lead	0.776	0.74	mg/Kg wet	0.738		105	80-120			
Batch B066229 - SW-846 7471										
Blank (B066229-BLK1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Mercury	ND	0.025	mg/Kg wet							
LCS (B066229-BS1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Mercury	4.53	0.33	mg/Kg wet	3.73		121	71.7-128.3			
LCS Dup (B066229-BSD1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Mercury	3.93	0.33	mg/Kg wet	3.73		105	71.7-128.3	14.3	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 B066274 - SW-846 9014										
Blank (B066274-BLK1) Prepared: 01/16/13 Analyzed: 01/17/13										
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B066274-BS1) Prepared: 01/16/13 Analyzed: 01/17/13										
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		93.9	80.1-115			
Batch B066275 - SW-846 9030A										
Blank (B066275-BLK1) Prepared: 01/16/13 Analyzed: 01/17/13										
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B066275-BS1) Prepared: 01/16/13 Analyzed: 01/17/13										
Reactive Sulfide	16	2.0	mg/Kg	14.9		107	32.9-140			
Batch B066345 - SM18-20 2510B										
Blank (B066345-BLK1) Prepared & Analyzed: 01/17/13										
Specific conductance	ND	2.0	µmhos/cm							
LCS (B066345-BS1) Prepared & Analyzed: 01/17/13										
Specific conductance	140	2.0	µmhos/cm	147		92.3	77.3-114			
Batch B066348 - SW-846 1010										
Blank (B066348-BLK1) Prepared & Analyzed: 01/17/13										
Flashpoint	> 212 °F		°F							
LCS (B066348-BS1) Prepared & Analyzed: 01/17/13										
Flashpoint	82		°F	81.0		101	98.8-101			
LCS Dup (B066348-BSD1) Prepared & Analyzed: 01/17/13										
Flashpoint	82		°F	81.0		101	98.8-101	0.00	1.61	

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-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.
O-26	Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.
O-32	A five times dilution was performed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME,VA
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D 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
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH

CERTIFICATIONS

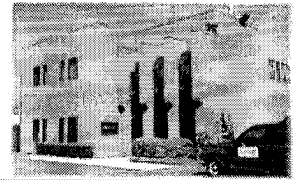
Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

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



Sample Receipt Checklist

CLIENT NAME: Klein Felder RECEIVED BY: WF DATE: 1-15-13

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

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

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

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>2</u>
500 mL Amber		4 oz amber/clear jar	<u>1</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>3</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol <u>1</u>	Time and Date Frozen:
Doc# 277 # Bisulfate <u>2</u> # DI Water _____	
Rev. 3 May 2012 # Thiosulfate _____ Unpreserved _____	

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 13A0387
Project Location: Cambridge	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
 13A0387-01

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 (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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

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

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


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

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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input 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: 01/23/13

January 24, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge-Concord Ave.
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13A0388

Enclosed are results of analyses for samples received by the laboratory on January 15, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager



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

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 1/24/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0388

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

PROJECT LOCATION: Cambridge-Concord Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B313-0.5-8.0	13A0388-01	Soil		SM 2540G SM18-20 2510B SW-846 1010 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A	
B315-0.5-4.5	13A0388-02	Soil		SM 2540G SM18-20 2510B SW-846 1010 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A	
B347-0.5-10.5	13A0388-03	Soil		SM 2540G SM18-20 2510B SW-846 1010 SW-846 6010C SW-846 7471B SW-846 8015C SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A	

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.

SW-846 8015C

Qualifications:

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

13A0388-03[B347-0.5-10.5]

Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.

Analyte & Samples(s) Qualified:

Asphalt

13A0388-01[B313-0.5-8.0], 13A0388-02[B315-0.5-4.5], 13A0388-03[B347-0.5-10.5]

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

13A0388-01[B313-0.5-8.0], 13A0388-02[B315-0.5-4.5]

SW-846 8082A

Qualifications:

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

Analyte & Samples(s) Qualified:

13A0388-01[B313-0.5-8.0], 13A0388-02[B315-0.5-4.5], 13A0388-03[B347-0.5-10.5]

SW-846 8260C

Qualifications:

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:

Dichlorodifluoromethane (Freon 12)

B066259-BS1, B066259-BSD1

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

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

13A0388-01[B313-0.5-8.0], 13A0388-02[B315-0.5-4.5], 13A0388-03[B347-0.5-10.5], 13A0388-03RE1[B347-0.5-10.5], B066259-BLK1, B066259-BS1, B066259-BSD1

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

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane, Tetrahydrofuran

13A0388-01[B313-0.5-8.0], 13A0388-02[B315-0.5-4.5], 13A0388-03[B347-0.5-10.5], 13A0388-03RE1[B347-0.5-10.5], B066259-BLK1, B066259-BS1, B066259-BSD1

Internal standard area <50% of associated calibration standard internal standard area.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,4-Dichlorobenzene-d4, Hexachlorobutadiene, Naphthalene, n-Butylbenzene, p-Isopropyltoluene (p-Cymene), sec-Butylbenzene, tert-Butylbenzene
13A0388-03[B347-0.5-10.5], 13A0388-03RE1[B347-0.5-10.5]

SW-846 8270D

Qualifications:

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Fluoranthene
B066303-MS1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Pyrene
B066303-MS1

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

Analyte & Samples(s) Qualified:

Phenanthrene, Pyrene
13A0388-01[B313-0.5-8.0], B066303-MS1, B066303-MSD1

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

13A0388-03[B347-0.5-10.5]

SW-846 8260C

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

SW-846 8270D

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.



Daren J. Damboragian
Laboratory Manager

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Bromomethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
2-Butanone (MEK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Carbon Disulfide	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Chlorodibromomethane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Chloroethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Chloroform	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Chloromethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2-Dibromoethane (EDB)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0086	mg/Kg dry	1	V-05	SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,1-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,3-Dichloropropane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
cis-1,3-Dichloropropene	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
trans-1,3-Dichloropropene	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Diethyl Ether	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Diisopropyl Ether (DIPE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,4-Dioxane	ND	0.086	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Methylene Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Naphthalene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Tetrahydrofuran	ND	0.0086	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
Vinyl Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
m+p Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 9:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.5	70-130	
Toluene-d8	97.7	70-130	
4-Bromofluorobenzene	91.0	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

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 8270D	1/17/13	1/21/13 16:36	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Anthracene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Benzo(a)anthracene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Benzo(a)pyrene	0.98	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Benzo(b)fluoranthene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Benzo(g,h,i)perylene	0.53	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Benzo(k)fluoranthene	0.41	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Butylbenzylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Chrysene	1.0	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Dimethylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Di-n-octylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Fluoranthene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Indeno(1,2,3-cd)pyrene	0.58	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

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	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Phenanthrene	0.66	0.19	mg/Kg dry	1	R-06	SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Pyrene	2.0	0.19	mg/Kg dry	1	R-06	SW-846 8270D	1/17/13	1/21/13 16:36	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 16:36	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
2-Fluorophenol	78.0		30-130			1/21/13 16:36			
Phenol-d6	77.0		30-130			1/21/13 16:36			
Nitrobenzene-d5	85.0		30-130			1/21/13 16:36			
2-Fluorobiphenyl	95.7		30-130			1/21/13 16:36			
2,4,6-Tribromophenol	115		30-130			1/21/13 16:36			
Terphenyl-d14	116		30-130			1/21/13 16:36			

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 14:57	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		80.8	30-150					1/18/13 14:57	
Decachlorobiphenyl [2]		82.0	30-150					1/18/13 14:57	
Tetrachloro-m-xylene [1]		81.0	30-150					1/18/13 14:57	
Tetrachloro-m-xylene [2]		81.4	30-150					1/18/13 14:57	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Asphalt	870	470	mg/Kg dry	50	O-26	SW-846 8015C	1/16/13	1/18/13 23:27	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		*	40-140		S-01			1/18/13 23:27	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.1	2.8	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:53	KSH
Barium	31	2.8	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:53	KSH
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:53	KSH
Chromium	37	0.56	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:53	KSH
Lead	15	0.84	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:53	KSH
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/15/13	1/16/13 12:19	SAJ
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:53	KSH
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:53	KSH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0388-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	1/17/13	1/17/13 15:58	CM
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	1/16/13	1/17/13 10:00	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/16/13	1/17/13 10:20	LL
Specific conductance	10	2.0	µmhos/cm	1		SM18-20 2510B	1/17/13	1/17/13 15:00	CM
% Solids	88.3		% Wt	1		SM 2540G	1/16/13	1/17/13 10:38	RH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1	V-05	SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Diethyl Ether	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Tetrachloroethylene	0.0069	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 10:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.2	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	86.3	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

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 8270D	1/17/13	1/21/13 17:10	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Benzo(a)anthracene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Benzo(a)pyrene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Benzo(b)fluoranthene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Bis(2-Ethylhexyl)phthalate	0.40	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Butylbenzylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Chrysene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Dimethylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Di-n-octylphthalate	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Fluoranthene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

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	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Phenanthrene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Pyrene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:10	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		77.8	30-130					1/21/13 17:10	
Phenol-d6		79.5	30-130					1/21/13 17:10	
Nitrobenzene-d5		82.5	30-130					1/21/13 17:10	
2-Fluorobiphenyl		85.0	30-130					1/21/13 17:10	
2,4,6-Tribromophenol		105	30-130					1/21/13 17:10	
Terphenyl-d14		94.8	30-130					1/21/13 17:10	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:09	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		73.0	30-150					1/18/13 15:09	
Decachlorobiphenyl [2]		74.9	30-150					1/18/13 15:09	
Tetrachloro-m-xylene [1]		75.8	30-150					1/18/13 15:09	
Tetrachloro-m-xylene [2]		76.5	30-150					1/18/13 15:09	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Asphalt	1100	450	mg/Kg dry	50	O-26	SW-846 8015C	1/16/13	1/18/13 23:44	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		*	40-140		S-01			1/18/13 23:44	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:58	KSH
Barium	45	2.6	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:58	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:58	KSH
Chromium	23	0.53	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:58	KSH
Lead	13	0.79	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:58	KSH
Mercury	0.050	0.027	mg/Kg dry	1		SW-846 7471B	1/15/13	1/16/13 12:21	SAJ
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:58	KSH
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 11:58	KSH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B315-0.5-4.5

Sampled: 1/4/2013 12:00

Sample ID: 13A0388-02

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	1/18/13	1/18/13 16:46	CM
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	1/16/13	1/17/13 10:00	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/16/13	1/17/13 10:20	LL
Specific conductance	23	2.0	µmhos/cm	1		SM18-20 2510B	1/17/13	1/17/13 15:00	CM
% Solids	90.7		% Wt	1		SM 2540G	1/16/13	1/17/13 10:38	RH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

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 8260C	1/16/13	1/16/13 12:26	MFF
Acetone	ND	0.088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Benzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Bromobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Bromochloromethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Bromodichloromethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Bromoform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Bromomethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Bromomethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
2-Butanone (MEK)	ND	0.063	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
2-Butanone (MEK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
n-Butylbenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
sec-Butylbenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
tert-Butylbenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Carbon Disulfide	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Carbon Tetrachloride	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Chlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Chlorodibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Chlorodibromomethane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Chloroethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Chloroform	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Chloroform	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Chloromethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Chloromethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
2-Chlorotoluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
4-Chlorotoluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0032	mg/Kg dry	1	V-16, V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1	V-16, V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,2-Dibromoethane (EDB)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Dibromomethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2-Dichlorobenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,3-Dichlorobenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,4-Dichlorobenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0088	mg/Kg dry	1	V-05	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1	V-05	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1-Dichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,2-Dichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,1-Dichloroethylene	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
cis-1,2-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
trans-1,2-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2-Dichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,3-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,3-Dichloropropane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
2,2-Dichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,1-Dichloropropene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
cis-1,3-Dichloropropene	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
cis-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
trans-1,3-Dichloropropene	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
trans-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Diethyl Ether	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Diethyl Ether	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Diisopropyl Ether (DIPE)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Diisopropyl Ether (DIPE)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,4-Dioxane	ND	0.16	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,4-Dioxane	ND	0.088	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Ethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Hexachlorobutadiene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
2-Hexanone (MBK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Isopropylbenzene (Cumene)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Methylene Chloride	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Naphthalene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Naphthalene	ND	0.0063	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
n-Propylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Styrene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Tetrachloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Tetrahydrofuran	ND	0.0088	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Tetrahydrofuran	ND	0.016	mg/Kg dry	1	V-16	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Toluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,1,1-Trichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,1,2-Trichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Trichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2,3-Trichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1	V-17	SW-846 8260C	1/16/13	1/16/13 11:04	MFF
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Vinyl Chloride	ND	0.0088	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
Vinyl Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
m+p Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
m+p Xylene	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 11:04	MFF
o-Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/16/13	1/16/13 12:26	MFF
Surrogates		% Recovery	Recovery Limits		Flag				
1,2-Dichloroethane-d4		94.7	70-130					1/16/13 12:26	
1,2-Dichloroethane-d4		95.9	70-130					1/16/13 11:04	
Toluene-d8		91.7	70-130					1/16/13 11:04	
Toluene-d8		93.1	70-130					1/16/13 12:26	
4-Bromofluorobenzene		72.4	70-130					1/16/13 12:26	
4-Bromofluorobenzene		73.0	70-130					1/16/13 11:04	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Acenaphthylene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Acetophenone	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Aniline	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Anthracene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Benzo(a)anthracene	0.56	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Benzo(a)pyrene	0.54	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Benzo(b)fluoranthene	0.68	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Benzo(g,h,i)perylene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Benzo(k)fluoranthene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Bis(2-chloroethoxy)methane	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Bis(2-chloroethyl)ether	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Bis(2-chloroisopropyl)ether	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
4-Bromophenylphenylether	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Butylbenzylphthalate	ND	1.6	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
4-Chloroaniline	ND	1.6	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2-Chloronaphthalene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2-Chlorophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Chrysene	0.63	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Dibenz(a,h)anthracene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Dibenzofuran	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Di-n-butylphthalate	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
1,2-Dichlorobenzene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
1,3-Dichlorobenzene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
1,4-Dichlorobenzene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
3,3-Dichlorobenzidine	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2,4-Dichlorophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Diethylphthalate	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2,4-Dimethylphenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Dimethylphthalate	ND	1.6	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2,4-Dinitrophenol	ND	1.6	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2,4-Dinitrotoluene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2,6-Dinitrotoluene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Di-n-octylphthalate	ND	1.6	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Fluoranthene	0.70	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Fluorene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Hexachlorobenzene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Hexachlorobutadiene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Hexachloroethane	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Indeno(1,2,3-cd)pyrene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Isophorone	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2-Methylnaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
3/4-Methylphenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Naphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Nitrobenzene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2-Nitrophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
4-Nitrophenol	ND	1.6	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Pentachlorophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Phenanthrene	0.53	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Phenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
Pyrene	1.0	0.42	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
1,2,4-Trichlorobenzene	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2,4,5-Trichlorophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR
2,4,6-Trichlorophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	1/17/13	1/21/13 17:44	CMR

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	75.7	30-130	
Phenol-d6	77.4	30-130	
Nitrobenzene-d5	82.5	30-130	
2-Fluorobiphenyl	87.5	30-130	
2,4,6-Tribromophenol	109	30-130	
Terphenyl-d14	103	30-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/17/13	1/18/13 15:21	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		84.2	30-150					1/18/13 15:21	
Decachlorobiphenyl [2]		86.0	30-150					1/18/13 15:21	
Tetrachloro-m-xylene [1]		89.5	30-150					1/18/13 15:21	
Tetrachloro-m-xylene [2]		90.0	30-150					1/18/13 15:21	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Sample Flags: DL-03

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Asphalt	310	20	mg/Kg dry	1	O-26	SW-846 8015C	1/16/13	1/21/13 13:14	SCS
Surrogates		% Recovery			Recovery Limits				Flag
o-Terphenyl		73.6			40-140			1/21/13 13:14	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 12:03	KSH
Barium	26	2.9	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 12:03	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 12:03	KSH
Chromium	10	0.58	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 12:03	KSH
Lead	23	0.87	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 12:03	KSH
Mercury	0.12	0.031	mg/Kg dry	1		SW-846 7471B	1/15/13	1/16/13 12:27	SAJ
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 12:03	KSH
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	1/15/13	1/16/13 12:03	KSH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0388

Date Received: 1/15/2013

Field Sample #: B347-0.5-10.5

Sampled: 1/4/2013 14:00

Sample ID: 13A0388-03

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
Flashpoint	> 212 °F		°F	1		SW-846 1010	1/18/13	1/18/13 16:46	CM
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/16/13	1/17/13 10:00	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/16/13	1/17/13 10:20	LL
Specific conductance	17	2.0	µmhos/cm	1		SM18-20 2510B	1/17/13	1/17/13 15:00	CM
% Solids	80.7		% Wt	1		SM 2540G	1/16/13	1/17/13 10:38	RH

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0388-01 [B313-0.5-8.0]	B066241	01/16/13
13A0388-02 [B315-0.5-4.5]	B066241	01/16/13
13A0388-03 [B347-0.5-10.5]	B066241	01/16/13

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
13A0388-01 [B313-0.5-8.0]	B066345	1.00	01/17/13
13A0388-02 [B315-0.5-4.5]	B066345	1.00	01/17/13
13A0388-03 [B347-0.5-10.5]	B066345	1.00	01/17/13

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066348	50.0	50.0	01/17/13

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-02 [B315-0.5-4.5]	B066406	50.0	50.0	01/18/13
13A0388-03 [B347-0.5-10.5]	B066406	50.0	50.0	01/18/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066227	1.01	50.0	01/15/13
13A0388-02 [B315-0.5-4.5]	B066227	1.04	50.0	01/15/13
13A0388-03 [B347-0.5-10.5]	B066227	1.07	50.0	01/15/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066229	0.608	50.0	01/15/13
13A0388-02 [B315-0.5-4.5]	B066229	0.617	50.0	01/15/13
13A0388-03 [B347-0.5-10.5]	B066229	0.604	50.0	01/15/13

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066240	30.2	1.00	01/16/13
13A0388-02 [B315-0.5-4.5]	B066240	30.3	1.00	01/16/13
13A0388-03 [B347-0.5-10.5]	B066240	15.2	1.00	01/16/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066294	10.3	10.0	01/17/13
13A0388-02 [B315-0.5-4.5]	B066294	10.3	10.0	01/17/13
13A0388-03 [B347-0.5-10.5]	B066294	10.2	10.0	01/17/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066259	6.56	10.0	01/16/13
13A0388-02 [B315-0.5-4.5]	B066259	5.40	10.0	01/16/13
13A0388-03 [B347-0.5-10.5]	B066259	7.08	10.0	01/16/13
13A0388-03RE1 [B347-0.5-10.5]	B066259	3.93	10.0	01/16/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066303	30.1	1.00	01/17/13
13A0388-02 [B315-0.5-4.5]	B066303	30.1	1.00	01/17/13
13A0388-03 [B347-0.5-10.5]	B066303	15.1	1.00	01/17/13

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066274	25.3	250	01/16/13
13A0388-02 [B315-0.5-4.5]	B066274	25.4	250	01/16/13
13A0388-03 [B347-0.5-10.5]	B066274	25.2	250	01/16/13

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0388-01 [B313-0.5-8.0]	B066275	25.3	250	01/16/13
13A0388-02 [B315-0.5-4.5]	B066275	25.4	250	01/16/13
13A0388-03 [B347-0.5-10.5]	B066275	25.2	250	01/16/13

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 B066259 - SW-846 5035

Blank (B066259-BLK1)

Prepared & Analyzed: 01/16/13

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	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	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
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Batch B066259 - SW-846 5035

Blank (B066259-BLK1)

Prepared & Analyzed: 01/16/13

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	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0482		mg/Kg wet	0.0500		96.5	70-130			

LCS (B066259-BS1)

Prepared & Analyzed: 01/16/13

Acetone	0.183	0.10	mg/Kg wet	0.200		91.6	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Benzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromochloromethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromodichloromethane	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130			
Bromoform	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Bromomethane	0.0160	0.010	mg/Kg wet	0.0200		79.9	40-160			†
2-Butanone (MEK)	0.213	0.040	mg/Kg wet	0.200		107	40-160			†
n-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
sec-Butylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Carbon Disulfide	0.0173	0.0060	mg/Kg wet	0.0200		86.5	70-130			
Carbon Tetrachloride	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Chlorodibromomethane	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130			
Chloroethane	0.0178	0.010	mg/Kg wet	0.0200		89.0	70-130			
Chloroform	0.0201	0.0040	mg/Kg wet	0.0200		100	70-130			
Chloromethane	0.0227	0.010	mg/Kg wet	0.0200		113	40-160			†
2-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
4-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			V-16
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.0200		98.8	70-130			
Dibromomethane	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
1,2-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	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 B066259 - SW-846 5035										
LCS (B066259-BS1)										
Prepared & Analyzed: 01/16/13										
Dichlorodifluoromethane (Freon 12)	0.0135	0.010	mg/Kg wet	0.0200		67.6	40-160			L-14, V-05 †
1,1-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloroethane	0.0170	0.0020	mg/Kg wet	0.0200		84.8	70-130			
1,1-Dichloroethylene	0.0170	0.0040	mg/Kg wet	0.0200		84.8	70-130			
cis-1,2-Dichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,2-Dichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
2,2-Dichloropropane	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
1,1-Dichloropropene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
cis-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130			
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.3	70-130			
Diethyl Ether	0.0171	0.010	mg/Kg wet	0.0200		85.7	70-130			
Diisopropyl Ether (DIPE)	0.0250	0.0010	mg/Kg wet	0.0200		125	70-130			
1,4-Dioxane	0.161	0.10	mg/Kg wet	0.200		80.3	40-160			V-16 †
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Hexachlorobutadiene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
2-Hexanone (MBK)	0.215	0.020	mg/Kg wet	0.200		108	40-160			†
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
p-Isopropyltoluene (p-Cymene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Methylene Chloride	0.0216	0.010	mg/Kg wet	0.0200		108	70-130			
4-Methyl-2-pentanone (MIBK)	0.217	0.020	mg/Kg wet	0.200		109	40-160			†
Naphthalene	0.0191	0.0040	mg/Kg wet	0.0200		95.6	70-130			
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Styrene	0.0227	0.0020	mg/Kg wet	0.0200		113	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	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130			
Tetrachloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
Tetrahydrofuran	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			V-16
Toluene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
1,2,3-Trichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,1,1-Trichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0156	0.010	mg/Kg wet	0.0200		78.0	70-130			
1,2,3-Trichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3,5-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Vinyl Chloride	0.0164	0.010	mg/Kg wet	0.0200		81.8	70-130			
m+p Xylene	0.0419	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0483		mg/Kg wet	0.0500		96.6	70-130			
Surrogate: Toluene-d8	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		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 B066259 - SW-846 5035										
LCS Dup (B066259-BSD1)										
Prepared & Analyzed: 01/16/13										
Acetone	0.185	0.10	mg/Kg wet	0.200		92.6	40-160	1.17	20	†
tert-Amyl Methyl Ether (TAME)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130	0.199	20	
Benzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	3.67	20	
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.472	20	
Bromochloromethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	4.04	20	
Bromodichloromethane	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130	1.17	20	
Bromoform	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	0.109	20	
Bromomethane	0.0174	0.010	mg/Kg wet	0.0200		87.0	40-160	8.51	20	†
2-Butanone (MEK)	0.217	0.040	mg/Kg wet	0.200		109	40-160	1.83	20	†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.461	20	
sec-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	0.701	20	
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.66	20	
tert-Butyl Ethyl Ether (TBEE)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130	2.55	20	
Carbon Disulfide	0.0181	0.0060	mg/Kg wet	0.0200		90.3	70-130	4.30	20	
Carbon Tetrachloride	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130	1.58	20	
Chlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.98	20	
Chlorodibromomethane	0.0170	0.0010	mg/Kg wet	0.0200		85.1	70-130	4.70	20	
Chloroethane	0.0185	0.010	mg/Kg wet	0.0200		92.7	70-130	4.07	20	
Chloroform	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.298	20	
Chloromethane	0.0227	0.010	mg/Kg wet	0.0200		113	40-160	0.00	20	†
2-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.06	20	
4-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.746	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130	0.332	20	V-16
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	1.84	20	
Dibromomethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	2.70	20	
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.56	20	
1,3-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.379	20	
1,4-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.68	20	
Dichlorodifluoromethane (Freon 12)	0.0138	0.010	mg/Kg wet	0.0200		69.1	40-160	2.19	20	L-14, V-05 †
1,1-Dichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	1.82	20	
1,2-Dichloroethane	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130	1.52	20	
1,1-Dichloroethylene	0.0172	0.0040	mg/Kg wet	0.0200		86.2	70-130	1.64	20	
cis-1,2-Dichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	2.24	20	
trans-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	3.47	20	
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.91	20	
1,3-Dichloropropane	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130	0.401	20	
2,2-Dichloropropane	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130	2.36	20	
1,1-Dichloropropene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.96	20	
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130	0.336	20	
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.6	70-130	0.328	20	
Diethyl Ether	0.0177	0.010	mg/Kg wet	0.0200		88.3	70-130	2.99	20	
Diisopropyl Ether (DIPE)	0.0252	0.0010	mg/Kg wet	0.0200		126	70-130	0.638	20	
1,4-Dioxane	0.186	0.10	mg/Kg wet	0.200		92.8	40-160	14.5	20	V-16 †
Ethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.926	20	
Hexachlorobutadiene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	1.39	20	
2-Hexanone (MBK)	0.217	0.020	mg/Kg wet	0.200		108	40-160	0.722	20	†
Isopropylbenzene (Cumene)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	3.08	20	
p-Isopropyltoluene (p-Cymene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.59	20	
Methyl tert-Butyl Ether (MTBE)	0.0205	0.0040	mg/Kg wet	0.0200		103	70-130	1.77	20	
Methylene Chloride	0.0219	0.010	mg/Kg wet	0.0200		109	70-130	1.10	20	
4-Methyl-2-pentanone (MIBK)	0.221	0.020	mg/Kg wet	0.200		111	40-160	1.76	20	†
Naphthalene	0.0196	0.0040	mg/Kg wet	0.0200		97.9	70-130	2.38	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 B066259 - SW-846 5035										
LCS Dup (B066259-BSD1)										
Prepared & Analyzed: 01/16/13										
n-Propylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	2.33	20	
Styrene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.176	20	
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.06	20	
1,1,2,2-Tetrachloroethane	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130	1.04	20	
Tetrachloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	1.56	20	
Tetrahydrofuran	0.0216	0.010	mg/Kg wet	0.0200		108	70-130	3.68	20	V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	0.424	20	
1,2,3-Trichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	2.48	20	
1,2,4-Trichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	1.01	20	
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	2.11	20	
1,1,2-Trichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	1.47	20	
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130	0.428	20	
Trichlorofluoromethane (Freon 11)	0.0163	0.010	mg/Kg wet	0.0200		81.5	70-130	4.39	20	
1,2,3-Trichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.46	20	
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.286	20	
1,3,5-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.87	20	
Vinyl Chloride	0.0169	0.010	mg/Kg wet	0.0200		84.4	70-130	3.13	20	
m+p Xylene	0.0425	0.0040	mg/Kg wet	0.0400		106	70-130	1.33	20	
o-Xylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.478	20	
Surrogate: 1,2-Dichloroethane-d4	0.0481		mg/Kg wet	0.0500		96.2	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	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 B066303 - SW-846 3546

Blank (B066303-BLK1)

Prepared: 01/17/13 Analyzed: 01/21/13

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							

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 B066303 - SW-846 3546

Blank (B066303-BLK1)

Prepared: 01/17/13 Analyzed: 01/21/13

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	5.82		mg/Kg wet	6.67		87.3	30-130			
Surrogate: Phenol-d6	5.80		mg/Kg wet	6.67		87.0	30-130			
Surrogate: Nitrobenzene-d5	3.01		mg/Kg wet	3.33		90.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.03		mg/Kg wet	3.33		91.0	30-130			
Surrogate: 2,4,6-Tribromophenol	5.65		mg/Kg wet	6.67		84.8	30-130			
Surrogate: Terphenyl-d14	3.55		mg/Kg wet	3.33		107	30-130			

LCS (B066303-BS1)

Prepared: 01/17/13 Analyzed: 01/21/13

Acenaphthene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140			
Acenaphthylene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Acetophenone	1.30	0.34	mg/Kg wet	1.67		78.2	40-140			
Aniline	1.01	0.34	mg/Kg wet	1.67		60.6	40-140			
Anthracene	1.55	0.17	mg/Kg wet	1.67		92.7	40-140			
Benzo(a)anthracene	1.60	0.17	mg/Kg wet	1.67		96.0	40-140			
Benzo(a)pyrene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
Benzo(b)fluoranthene	1.50	0.17	mg/Kg wet	1.67		89.7	40-140			
Benzo(g,h,i)perylene	1.81	0.17	mg/Kg wet	1.67		109	40-140			
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.67		94.6	40-140			
Bis(2-chloroethoxy)methane	1.44	0.34	mg/Kg wet	1.67		86.5	40-140			
Bis(2-chloroethyl)ether	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
Bis(2-chloroisopropyl)ether	1.23	0.34	mg/Kg wet	1.67		73.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.62	0.34	mg/Kg wet	1.67		97.5	40-140			
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.67		90.6	40-140			
Butylbenzylphthalate	1.64	0.66	mg/Kg wet	1.67		98.1	40-140			
4-Chloroaniline	1.27	0.66	mg/Kg wet	1.67		76.3	15-140			†
2-Chloronaphthalene	1.23	0.34	mg/Kg wet	1.67		73.6	40-140			
2-Chlorophenol	1.27	0.34	mg/Kg wet	1.67		76.1	30-130			
Chrysene	1.50	0.17	mg/Kg wet	1.67		90.2	40-140			
Dibenz(a,h)anthracene	1.73	0.17	mg/Kg wet	1.67		104	40-140			
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.2	40-140			
Di-n-butylphthalate	1.61	0.34	mg/Kg wet	1.67		96.8	40-140			
1,2-Dichlorobenzene	1.23	0.34	mg/Kg wet	1.67		74.0	40-140			
1,3-Dichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.9	40-140			
1,4-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
3,3-Dichlorobenzidine	1.62	0.17	mg/Kg wet	1.67		96.9	40-140			
2,4-Dichlorophenol	1.44	0.34	mg/Kg wet	1.67		86.6	30-130			
Diethylphthalate	1.53	0.34	mg/Kg wet	1.67		91.9	40-140			
2,4-Dimethylphenol	1.49	0.34	mg/Kg wet	1.67		89.6	30-130			
Dimethylphthalate	1.50	0.66	mg/Kg wet	1.67		89.9	40-140			
2,4-Dinitrophenol	0.766	0.66	mg/Kg wet	1.67		46.0	15-140			†
2,4-Dinitrotoluene	1.58	0.34	mg/Kg wet	1.67		94.8	40-140			
2,6-Dinitrotoluene	1.58	0.34	mg/Kg wet	1.67		95.1	40-140			
Di-n-octylphthalate	1.60	0.66	mg/Kg wet	1.67		96.2	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.48	0.34	mg/Kg wet	1.67		88.9	40-140			
Fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.0	40-140			
Fluorene	1.49	0.17	mg/Kg wet	1.67		89.3	40-140			
Hexachlorobenzene	1.50	0.34	mg/Kg wet	1.67		89.9	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
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Batch B066303 - SW-846 3546

LCS (B066303-BS1)

Prepared: 01/17/13 Analyzed: 01/21/13

Hexachlorobutadiene	1.35	0.34	mg/Kg wet	1.67		81.0	40-140			
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		75.0	40-140			
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.67		107	40-140			
Isophorone	1.39	0.34	mg/Kg wet	1.67		83.4	40-140			
2-Methylnaphthalene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140			
2-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.1	30-130			
3/4-Methylphenol	1.32	0.34	mg/Kg wet	1.67		79.4	30-130			
Naphthalene	1.33	0.17	mg/Kg wet	1.67		79.8	40-140			
Nitrobenzene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140			
2-Nitrophenol	1.36	0.34	mg/Kg wet	1.67		81.4	30-130			
4-Nitrophenol	1.62	0.66	mg/Kg wet	1.67		97.4	15-140			†
Pentachlorophenol	1.49	0.34	mg/Kg wet	1.67		89.7	30-130			
Phenanthrene	1.53	0.17	mg/Kg wet	1.67		92.1	40-140			
Phenol	1.26	0.34	mg/Kg wet	1.67		75.4	15-140			†
Pyrene	1.54	0.17	mg/Kg wet	1.67		92.5	40-140			
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.2	40-140			
2,4,5-Trichlorophenol	1.42	0.34	mg/Kg wet	1.67		85.0	30-130			
2,4,6-Trichlorophenol	1.47	0.34	mg/Kg wet	1.67		88.1	30-130			
Surrogate: 2-Fluorophenol	5.14		mg/Kg wet	6.67		77.1	30-130			
Surrogate: Phenol-d6	5.09		mg/Kg wet	6.67		76.4	30-130			
Surrogate: Nitrobenzene-d5	2.75		mg/Kg wet	3.33		82.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.76		mg/Kg wet	3.33		82.9	30-130			
Surrogate: 2,4,6-Tribromophenol	6.82		mg/Kg wet	6.67		102	30-130			
Surrogate: Terphenyl-d14	3.29		mg/Kg wet	3.33		98.6	30-130			

LCS Dup (B066303-BS1)

Prepared: 01/17/13 Analyzed: 01/21/13

Acenaphthene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	7.76	30	
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	7.26	30	
Acetophenone	1.18	0.34	mg/Kg wet	1.67		71.0	40-140	9.68	30	
Aniline	0.928	0.34	mg/Kg wet	1.67		55.7	40-140	8.50	30	
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140	8.55	30	
Benzo(a)anthracene	1.43	0.17	mg/Kg wet	1.67		85.8	40-140	11.2	30	
Benzo(a)pyrene	1.38	0.17	mg/Kg wet	1.67		82.7	40-140	12.9	30	
Benzo(b)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	14.1	30	
Benzo(g,h,i)perylene	1.61	0.17	mg/Kg wet	1.67		96.3	40-140	11.9	30	
Benzo(k)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140	15.8	30	
Bis(2-chloroethoxy)methane	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	9.06	30	
Bis(2-chloroethyl)ether	1.26	0.34	mg/Kg wet	1.67		75.3	40-140	5.27	30	
Bis(2-chloroisopropyl)ether	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	7.58	30	
Bis(2-Ethylhexyl)phthalate	1.49	0.34	mg/Kg wet	1.67		89.2	40-140	8.89	30	
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.7	40-140	11.6	30	
Butylbenzylphthalate	1.50	0.66	mg/Kg wet	1.67		90.1	40-140	8.57	30	
4-Chloroaniline	1.18	0.66	mg/Kg wet	1.67		70.6	15-140	7.81	30	
2-Chloronaphthalene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140	5.93	30	
2-Chlorophenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	6.99	30	
Chrysene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140	9.65	30	
Dibenz(a,h)anthracene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	13.6	30	
Dibenzofuran	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	9.05	30	
Di-n-butylphthalate	1.44	0.34	mg/Kg wet	1.67		86.6	40-140	11.1	30	
1,2-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.6	40-140	8.96	30	
1,3-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.9	40-140	9.92	30	
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.3	40-140	8.52	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
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Batch B066303 - SW-846 3546

LCS Dup (B066303-BSD1)

Prepared: 01/17/13 Analyzed: 01/21/13

3,3-Dichlorobenzidine	1.40	0.17	mg/Kg wet	1.67		84.1	40-140	14.2	30	
2,4-Dichlorophenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130	9.45	30	
Diethylphthalate	1.30	0.34	mg/Kg wet	1.67		78.2	40-140	16.1	30	
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.6	30-130	9.39	30	
Dimethylphthalate	1.31	0.66	mg/Kg wet	1.67		78.7	40-140	13.2	30	
2,4-Dinitrophenol	0.832	0.66	mg/Kg wet	1.67		49.9	15-140	8.30	30	†
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	18.1	30	
2,6-Dinitrotoluene	1.41	0.34	mg/Kg wet	1.67		84.7	40-140	11.5	30	
Di-n-octylphthalate	1.37	0.66	mg/Kg wet	1.67		82.0	40-140	16.0	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	5.64	30	
Fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140	10.7	30	
Fluorene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	12.1	30	
Hexachlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.0	40-140	9.24	30	
Hexachlorobutadiene	1.24	0.34	mg/Kg wet	1.67		74.2	40-140	8.79	30	
Hexachloroethane	1.14	0.34	mg/Kg wet	1.67		68.6	40-140	8.95	30	
Indeno(1,2,3-cd)pyrene	1.58	0.17	mg/Kg wet	1.67		95.1	40-140	11.6	30	
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.0	40-140	7.95	30	
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	10.9	30	
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		72.1	30-130	6.73	30	
3/4-Methylphenol	1.23	0.34	mg/Kg wet	1.67		73.7	30-130	7.47	30	
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	9.50	30	
Nitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.7	40-140	10.1	30	
2-Nitrophenol	1.26	0.34	mg/Kg wet	1.67		75.5	30-130	7.60	30	
4-Nitrophenol	1.36	0.66	mg/Kg wet	1.67		81.7	15-140	17.6	30	†
Pentachlorophenol	1.38	0.34	mg/Kg wet	1.67		82.7	30-130	8.05	30	
Phenanthrene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140	10.5	30	
Phenol	1.16	0.34	mg/Kg wet	1.67		69.4	15-140	8.20	30	†
Pyrene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140	8.92	30	
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	8.37	30	
2,4,5-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		78.2	30-130	8.24	30	
2,4,6-Trichlorophenol	1.40	0.34	mg/Kg wet	1.67		83.7	30-130	5.05	30	
Surrogate: 2-Fluorophenol	4.69		mg/Kg wet	6.67		70.4	30-130			
Surrogate: Phenol-d6	4.61		mg/Kg wet	6.67		69.2	30-130			
Surrogate: Nitrobenzene-d5	2.48		mg/Kg wet	3.33		74.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: 2,4,6-Tribromophenol	5.64		mg/Kg wet	6.67		84.7	30-130			
Surrogate: Terphenyl-d14	2.96		mg/Kg wet	3.33		88.7	30-130			

Matrix Spike (B066303-MS1)

Source: 13A0388-01

Prepared: 01/17/13 Analyzed: 01/21/13

Acenaphthene	1.64	0.19	mg/Kg dry	1.89	ND	86.9	40-140			
Acenaphthylene	1.62	0.19	mg/Kg dry	1.89	ND	85.8	40-140			
Acetophenone	1.37	0.39	mg/Kg dry	1.89	ND	72.7	40-140			
Aniline	0.943	0.39	mg/Kg dry	1.89	ND	50.0	40-140			
Anthracene	1.78	0.19	mg/Kg dry	1.89	0.247	81.1	40-140			
Benzo(a)anthracene	1.99	0.19	mg/Kg dry	1.89	1.07	48.8	40-140			
Benzo(a)pyrene	1.90	0.19	mg/Kg dry	1.89	0.976	48.9	40-140			
Benzo(b)fluoranthene	1.89	0.19	mg/Kg dry	1.89	1.13	40.2	40-140			
Benzo(g,h,i)perylene	1.89	0.19	mg/Kg dry	1.89	0.532	72.1	40-140			
Benzo(k)fluoranthene	1.78	0.19	mg/Kg dry	1.89	0.409	72.7	40-140			
Bis(2-chloroethoxy)methane	1.55	0.39	mg/Kg dry	1.89	ND	82.1	40-140			
Bis(2-chloroethyl)ether	1.47	0.39	mg/Kg dry	1.89	ND	77.9	40-140			
Bis(2-chloroisopropyl)ether	1.31	0.39	mg/Kg dry	1.89	ND	69.6	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
Batch B066303 - SW-846 3546										
Matrix Spike (B066303-MS1)	Source: 13A0388-01			Prepared: 01/17/13 Analyzed: 01/21/13						
Bis(2-Ethylhexyl)phthalate	1.98	0.39	mg/Kg dry	1.89	0.183	95.2	40-140			
4-Bromophenylphenylether	1.73	0.39	mg/Kg dry	1.89	ND	91.7	40-140			
Butylbenzylphthalate	1.93	0.75	mg/Kg dry	1.89	ND	102	40-140			
4-Chloroaniline	1.29	0.75	mg/Kg dry	1.89	ND	68.1	40-140			
2-Chloronaphthalene	1.43	0.39	mg/Kg dry	1.89	ND	75.9	40-140			
2-Chlorophenol	1.38	0.39	mg/Kg dry	1.89	ND	73.3	30-130			
Chrysene	1.87	0.19	mg/Kg dry	1.89	1.04	43.7	40-140			
Dibenz(a,h)anthracene	1.70	0.19	mg/Kg dry	1.89	0.149	82.0	40-140			
Dibenzofuran	1.61	0.39	mg/Kg dry	1.89	ND	85.1	40-140			
Di-n-butylphthalate	1.90	0.39	mg/Kg dry	1.89	ND	101	40-140			
1,2-Dichlorobenzene	1.27	0.39	mg/Kg dry	1.89	ND	67.3	40-140			
1,3-Dichlorobenzene	1.26	0.39	mg/Kg dry	1.89	ND	66.6	40-140			
1,4-Dichlorobenzene	1.25	0.39	mg/Kg dry	1.89	ND	66.1	40-140			
3,3-Dichlorobenzidine	1.45	0.19	mg/Kg dry	1.89	ND	76.8	40-140			
2,4-Dichlorophenol	1.59	0.39	mg/Kg dry	1.89	ND	84.1	30-130			
Diethylphthalate	1.64	0.39	mg/Kg dry	1.89	ND	86.7	40-140			
2,4-Dimethylphenol	1.55	0.39	mg/Kg dry	1.89	ND	81.9	30-130			
Dimethylphthalate	1.70	0.75	mg/Kg dry	1.89	ND	90.2	40-140			
2,4-Dinitrophenol	1.12	0.75	mg/Kg dry	1.89	ND	59.2	30-130			
2,4-Dinitrotoluene	1.51	0.39	mg/Kg dry	1.89	ND	80.2	40-140			
2,6-Dinitrotoluene	1.62	0.39	mg/Kg dry	1.89	ND	85.9	40-140			
Di-n-octylphthalate	1.83	0.75	mg/Kg dry	1.89	ND	96.7	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.72	0.39	mg/Kg dry	1.89	ND	90.9	40-140			
Fluoranthene	2.26	0.19	mg/Kg dry	1.89	1.52	39.4 *	40-140			MS-22
Fluorene	1.63	0.19	mg/Kg dry	1.89	ND	86.2	40-140			
Hexachlorobenzene	1.69	0.39	mg/Kg dry	1.89	ND	89.5	40-140			
Hexachlorobutadiene	1.50	0.39	mg/Kg dry	1.89	ND	79.4	40-140			
Hexachloroethane	1.26	0.39	mg/Kg dry	1.89	ND	66.7	40-140			
Indeno(1,2,3-cd)pyrene	1.96	0.19	mg/Kg dry	1.89	0.576	73.4	40-140			
Isophorone	1.55	0.39	mg/Kg dry	1.89	ND	82.1	40-140			
2-Methylnaphthalene	1.43	0.19	mg/Kg dry	1.89	ND	75.8	40-140			
2-Methylphenol	1.41	0.39	mg/Kg dry	1.89	ND	74.5	30-130			
3/4-Methylphenol	1.33	0.39	mg/Kg dry	1.89	ND	70.7	30-130			
Naphthalene	1.43	0.19	mg/Kg dry	1.89	ND	75.8	40-140			
Nitrobenzene	1.40	0.39	mg/Kg dry	1.89	ND	74.3	40-140			
2-Nitrophenol	1.36	0.39	mg/Kg dry	1.89	ND	72.2	30-130			
4-Nitrophenol	1.95	0.75	mg/Kg dry	1.89	ND	103	30-130			
Pentachlorophenol	1.93	0.39	mg/Kg dry	1.89	ND	102	30-130			
Phenanthrene	1.93	0.19	mg/Kg dry	1.89	0.657	67.6	40-140			R-06
Phenol	1.27	0.39	mg/Kg dry	1.89	ND	67.5	30-130			
Pyrene	2.29	0.19	mg/Kg dry	1.89	1.98	16.5 *	40-140			MS-23
1,2,4-Trichlorobenzene	1.45	0.39	mg/Kg dry	1.89	ND	77.0	40-140			
2,4,5-Trichlorophenol	1.59	0.39	mg/Kg dry	1.89	ND	84.4	30-130			
2,4,6-Trichlorophenol	1.77	0.39	mg/Kg dry	1.89	ND	93.5	30-130			
Surrogate: 2-Fluorophenol	5.10		mg/Kg dry	7.55		67.6	30-130			
Surrogate: Phenol-d6	5.29		mg/Kg dry	7.55		70.1	30-130			
Surrogate: Nitrobenzene-d5	2.75		mg/Kg dry	3.78		72.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.24		mg/Kg dry	3.78		85.9	30-130			
Surrogate: 2,4,6-Tribromophenol	6.69		mg/Kg dry	7.55		88.6	30-130			
Surrogate: Terphenyl-d14	3.70		mg/Kg dry	3.78		98.1	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 B066303 - SW-846 3546										
Matrix Spike Dup (B066303-MSD1)										
		Source: 13A0388-01		Prepared: 01/17/13 Analyzed: 01/21/13						
Acenaphthene	1.97	0.19	mg/Kg dry	1.88	ND	105	40-140	18.1	30	
Acenaphthylene	1.91	0.19	mg/Kg dry	1.88	ND	102	40-140	16.5	30	
Acetophenone	1.60	0.38	mg/Kg dry	1.88	ND	85.3	40-140	15.6	30	
Aniline	1.13	0.38	mg/Kg dry	1.88	ND	60.1	40-140	18.1	30	
Anthracene	2.20	0.19	mg/Kg dry	1.88	0.247	104	40-140	21.4	30	
Benzo(a)anthracene	2.58	0.19	mg/Kg dry	1.88	1.07	80.2	40-140	25.8	30	
Benzo(a)pyrene	2.40	0.19	mg/Kg dry	1.88	0.976	75.4	40-140	23.1	30	
Benzo(b)fluoranthene	2.32	0.19	mg/Kg dry	1.88	1.13	63.5	40-140	20.7	30	
Benzo(g,h,i)perylene	2.16	0.19	mg/Kg dry	1.88	0.532	86.4	40-140	13.1	30	
Benzo(k)fluoranthene	1.96	0.19	mg/Kg dry	1.88	0.409	82.4	40-140	9.50	30	
Bis(2-chloroethoxy)methane	1.82	0.38	mg/Kg dry	1.88	ND	96.7	40-140	16.0	30	
Bis(2-chloroethyl)ether	1.62	0.38	mg/Kg dry	1.88	ND	86.3	40-140	9.88	30	
Bis(2-chloroisopropyl)ether	1.48	0.38	mg/Kg dry	1.88	ND	78.7	40-140	12.0	30	
Bis(2-Ethylhexyl)phthalate	2.31	0.38	mg/Kg dry	1.88	0.183	113	40-140	15.4	30	
4-Bromophenylphenylether	1.85	0.38	mg/Kg dry	1.88	ND	98.1	40-140	6.41	30	
Butylbenzylphthalate	2.26	0.74	mg/Kg dry	1.88	ND	120	40-140	15.7	30	
4-Chloroaniline	1.59	0.74	mg/Kg dry	1.88	ND	84.5	40-140	21.2	30	
2-Chloronaphthalene	1.61	0.38	mg/Kg dry	1.88	ND	85.5	40-140	11.5	30	
2-Chlorophenol	1.65	0.38	mg/Kg dry	1.88	ND	87.7	30-130	17.6	30	
Chrysene	2.40	0.19	mg/Kg dry	1.88	1.04	72.2	40-140	25.0	30	
Dibenz(a,h)anthracene	1.99	0.19	mg/Kg dry	1.88	0.149	97.9	40-140	15.9	30	
Dibenzofuran	1.95	0.38	mg/Kg dry	1.88	ND	104	40-140	19.5	30	
Di-n-butylphthalate	2.05	0.38	mg/Kg dry	1.88	ND	109	40-140	7.73	30	
1,2-Dichlorobenzene	1.43	0.38	mg/Kg dry	1.88	ND	76.2	40-140	12.0	30	
1,3-Dichlorobenzene	1.40	0.38	mg/Kg dry	1.88	ND	74.2	40-140	10.5	30	
1,4-Dichlorobenzene	1.42	0.38	mg/Kg dry	1.88	ND	75.6	40-140	13.1	30	
3,3-Dichlorobenzidine	1.88	0.19	mg/Kg dry	1.88	ND	100	40-140	26.0	30	
2,4-Dichlorophenol	1.91	0.38	mg/Kg dry	1.88	ND	102	30-130	18.7	30	
Diethylphthalate	1.97	0.38	mg/Kg dry	1.88	ND	105	40-140	18.7	30	
2,4-Dimethylphenol	1.94	0.38	mg/Kg dry	1.88	ND	103	30-130	22.4	30	
Dimethylphthalate	1.95	0.74	mg/Kg dry	1.88	ND	104	40-140	13.6	30	
2,4-Dinitrophenol	1.50	0.74	mg/Kg dry	1.88	ND	79.6	30-130	29.1	30	
2,4-Dinitrotoluene	1.97	0.38	mg/Kg dry	1.88	ND	105	40-140	26.1	30	
2,6-Dinitrotoluene	2.01	0.38	mg/Kg dry	1.88	ND	107	40-140	21.3	30	
Di-n-octylphthalate	1.79	0.74	mg/Kg dry	1.88	ND	95.3	40-140	1.81	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.80	0.38	mg/Kg dry	1.88	ND	95.6	40-140	4.71	30	
Fluoranthene	2.68	0.19	mg/Kg dry	1.88	1.52	61.8	40-140	17.0	30	
Fluorene	2.13	0.19	mg/Kg dry	1.88	ND	113	40-140	26.9	30	
Hexachlorobenzene	1.84	0.38	mg/Kg dry	1.88	ND	97.7	40-140	8.47	30	
Hexachlorobutadiene	1.73	0.38	mg/Kg dry	1.88	ND	92.2	40-140	14.6	30	
Hexachloroethane	1.47	0.38	mg/Kg dry	1.88	ND	78.1	40-140	15.5	30	
Indeno(1,2,3-cd)pyrene	2.37	0.19	mg/Kg dry	1.88	0.576	95.1	40-140	18.6	30	
Isophorone	1.85	0.38	mg/Kg dry	1.88	ND	98.1	40-140	17.4	30	
2-Methylnaphthalene	1.81	0.19	mg/Kg dry	1.88	ND	96.2	40-140	23.4	30	
2-Methylphenol	1.70	0.38	mg/Kg dry	1.88	ND	90.5	30-130	19.0	30	
3/4-Methylphenol	1.76	0.38	mg/Kg dry	1.88	ND	93.8	30-130	27.8	30	
Naphthalene	1.73	0.19	mg/Kg dry	1.88	ND	91.8	40-140	18.7	30	
Nitrobenzene	1.55	0.38	mg/Kg dry	1.88	ND	82.6	40-140	10.2	30	
2-Nitrophenol	1.62	0.38	mg/Kg dry	1.88	ND	85.9	30-130	16.9	30	
4-Nitrophenol	2.40	0.74	mg/Kg dry	1.88	ND	128	30-130	21.1	30	
Pentachlorophenol	2.03	0.38	mg/Kg dry	1.88	ND	108	30-130	5.26	30	
Phenanthrene	2.83	0.19	mg/Kg dry	1.88	0.657	116	40-140	37.7 *	30	R-06

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 B066303 - SW-846 3546

Matrix Spike Dup (B066303-MSD1)

Source: 13A0388-01

Prepared: 01/17/13 Analyzed: 01/21/13

Phenol	1.55	0.38	mg/Kg dry	1.88	ND	82.2	30-130	19.3	30	
Pyrene	3.54	0.19	mg/Kg dry	1.88	1.98	83.1	40-140	42.9 *	30	R-06
1,2,4-Trichlorobenzene	1.72	0.38	mg/Kg dry	1.88	ND	91.5	40-140	16.8	30	
2,4,5-Trichlorophenol	1.53	0.38	mg/Kg dry	1.88	ND	81.2	30-130	4.20	30	
2,4,6-Trichlorophenol	1.97	0.38	mg/Kg dry	1.88	ND	105	30-130	11.0	30	
Surrogate: 2-Fluorophenol	6.10		mg/Kg dry	7.52		81.0	30-130			
Surrogate: Phenol-d6	6.20		mg/Kg dry	7.52		82.4	30-130			
Surrogate: Nitrobenzene-d5	3.20		mg/Kg dry	3.76		85.0	30-130			
Surrogate: 2-Fluorobiphenyl	3.50		mg/Kg dry	3.76		92.9	30-130			
Surrogate: 2,4,6-Tribromophenol	8.47		mg/Kg dry	7.52		113	30-130			
Surrogate: Terphenyl-d14	4.52		mg/Kg dry	3.76		120	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B066294 - SW-846 3546										
Blank (B066294-BLK1)										
Prepared: 01/17/13 Analyzed: 01/18/13										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.171		mg/Kg wet	0.200		85.5	30-150			
LCS (B066294-BS1)										
Prepared: 01/17/13 Analyzed: 01/18/13										
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		97.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.200		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.1	30-150			
LCS Dup (B066294-BSD1)										
Prepared: 01/17/13 Analyzed: 01/18/13										
Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		96.6	40-140	8.30	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		99.7	40-140	8.61	30	
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		94.8	40-140	9.66	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		97.6	40-140	9.33	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.200		81.4	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
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Batch B066294 - SW-846 3546

Matrix Spike (B066294-MS1)

Source: 13A0388-02

Prepared: 01/17/13 Analyzed: 01/18/13

Aroclor-1016	0.21	0.11	mg/Kg dry	0.214	ND	98.0	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.214	ND	105	40-140			
Aroclor-1260	0.22	0.11	mg/Kg dry	0.214	ND	101	40-140			
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.214	ND	99.2	40-140			
Surrogate: Decachlorobiphenyl	0.173		mg/Kg dry	0.214		80.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.177		mg/Kg dry	0.214		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg dry	0.214		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg dry	0.214		86.5	30-150			

Matrix Spike Dup (B066294-MSD1)

Source: 13A0388-02

Prepared: 01/17/13 Analyzed: 01/18/13

Aroclor-1016	0.21	0.11	mg/Kg dry	0.214	ND	96.2	40-140	1.83	30	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.214	ND	96.8	40-140	7.83	30	
Aroclor-1260	0.20	0.11	mg/Kg dry	0.214	ND	91.3	40-140	10.5	30	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.214	ND	88.4	40-140	11.5	30	
Surrogate: Decachlorobiphenyl	0.156		mg/Kg dry	0.214		72.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg dry	0.214		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg dry	0.214		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg dry	0.214		79.3	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 B066240 - SW-846 3546										
Blank (B066240-BLK1)										
					Prepared: 01/16/13 Analyzed: 01/17/13					
Asphalt	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.67		mg/Kg wet	3.33		80.1	40-140			
LCS (B066240-BS1)										
					Prepared: 01/16/13 Analyzed: 01/17/13					
Fuel Oil #2	29.0	8.3	mg/Kg wet	33.3		87.0	40-140			
Surrogate: o-Terphenyl	2.61		mg/Kg wet	3.33		78.4	40-140			
LCS Dup (B066240-BSD1)										
					Prepared: 01/16/13 Analyzed: 01/17/13					
Fuel Oil #2	28.2	8.3	mg/Kg wet	33.3		84.7	40-140	2.59	25	
Surrogate: o-Terphenyl	2.53		mg/Kg wet	3.33		75.9	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B066227 - SW-846 3050B										
Blank (B066227-BLK1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
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 (B066227-BS1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Arsenic	97.5	5.0	mg/Kg wet	94.5		103	82.2-117.5			
Barium	171	5.0	mg/Kg wet	166		103	83.1-116.3			
Cadmium	61.6	0.50	mg/Kg wet	59.9		103	84-115.9			
Chromium	71.9	0.99	mg/Kg wet	69.3		104	81.4-118.6			
Lead	86.8	1.5	mg/Kg wet	91.7		94.6	82.4-117.8			
Selenium	162	9.9	mg/Kg wet	159		102	79.2-120.8			
Silver	32.6	0.99	mg/Kg wet	33.9		96.1	66.4-133.9			
LCS Dup (B066227-BSD1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Arsenic	97.9	5.0	mg/Kg wet	94.5		104	82.2-117.5	0.421	30	
Barium	174	5.0	mg/Kg wet	166		105	83.1-116.3	1.69	30	
Cadmium	60.5	0.50	mg/Kg wet	59.9		101	84-115.9	1.94	30	
Chromium	72.8	1.0	mg/Kg wet	69.3		105	81.4-118.6	1.19	30	
Lead	87.5	1.5	mg/Kg wet	91.7		95.5	82.4-117.8	0.874	30	
Selenium	162	10	mg/Kg wet	159		102	79.2-120.8	0.198	30	
Silver	33.3	1.0	mg/Kg wet	33.9		98.3	66.4-133.9	2.24	30	
MRL Check (B066227-MRL1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Lead	0.776	0.74	mg/Kg wet	0.738		105	80-120			
Batch B066229 - SW-846 7471										
Blank (B066229-BLK1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Mercury	ND	0.025	mg/Kg wet							
LCS (B066229-BS1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Mercury	4.53	0.33	mg/Kg wet	3.73		121	71.7-128.3			
LCS Dup (B066229-BSD1)										
Prepared: 01/15/13 Analyzed: 01/16/13										
Mercury	3.93	0.33	mg/Kg wet	3.73		105	71.7-128.3	14.3	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 B066241 - % Solids										
Duplicate (B066241-DUP1)		Source: 13A0388-01			Prepared: 01/16/13 Analyzed: 01/17/13					
% Solids	88.1		% Wt		88.3			0.227	20	
Batch B066274 - SW-846 9014										
Blank (B066274-BLK1)		Prepared: 01/16/13 Analyzed: 01/17/13								
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B066274-BS1)		Prepared: 01/16/13 Analyzed: 01/17/13								
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		93.9	80.1-115			
Batch B066275 - SW-846 9030A										
Blank (B066275-BLK1)		Prepared: 01/16/13 Analyzed: 01/17/13								
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B066275-BS1)		Prepared: 01/16/13 Analyzed: 01/17/13								
Reactive Sulfide	16	2.0	mg/Kg	14.9		107	32.9-140			
Batch B066345 - SM18-20 2510B										
Blank (B066345-BLK1)		Prepared & Analyzed: 01/17/13								
Specific conductance	ND	2.0	µmhos/cm							
LCS (B066345-BS1)		Prepared & Analyzed: 01/17/13								
Specific conductance	140	2.0	µmhos/cm	147		92.3	77.3-114			
Duplicate (B066345-DUP1)		Source: 13A0388-03			Prepared & Analyzed: 01/17/13					
Specific conductance	17	2.0	µmhos/cm		17			1.40	18.9	
Batch B066348 - SW-846 1010										
Blank (B066348-BLK1)		Prepared & Analyzed: 01/17/13								
Flashpoint	> 212 °F		°F							
LCS (B066348-BS1)		Prepared & Analyzed: 01/17/13								
Flashpoint	82		°F	81.0		101	98.8-101			
LCS Dup (B066348-BSD1)		Prepared & Analyzed: 01/17/13								
Flashpoint	82		°F	81.0		101	98.8-101	0.00	1.61	

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 B066406 - SW-846 1010										
Blank (B066406-BLK1)				Prepared & Analyzed: 01/18/13						
Flashpoint	> 212 °F		°F							
LCS (B066406-BS1)				Prepared & Analyzed: 01/18/13						
Flashpoint	81		°F	81.0	100		98.8-101			
LCS Dup (B066406-BSD1)				Prepared & Analyzed: 01/18/13						
Flashpoint	81		°F	81.0	100		98.8-101	0.00	1.61	

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.
DL-03	Elevated reporting limit due to matrix.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
O-26	Sample contamination consists of heavy residual hydrocarbons similar to asphalt. Chromatogram also shows the presence of PAHs.
O-32	A five times dilution was performed as part of the standard analytical procedure.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-17	Internal standard area <50% of associated calibration standard internal standard area.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME,VA
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D 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
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
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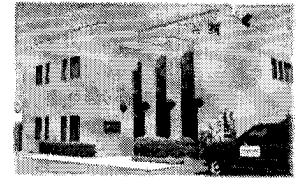
SW-846 9030A in Soil

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

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



Sample Receipt Checklist

CLIENT NAME: KLEINFELDER RECEIVED BY: WF DATE: 1-15-13

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain: _____
- 3) Are all the samples in good condition? Yes No
 If not, explain: _____
- 4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
- Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
- Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1
- 5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	5
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	9	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol 3
 # Bisulfate 6 # DI Water _____
 # Thiosulfate _____

Time and Date Frozen: _____

February 1, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge-Concord Ave.
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13A0664

Enclosed are results of analyses for samples received by the laboratory on January 25, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager



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

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 2/1/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0664

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

PROJECT LOCATION: Cambridge-Concord Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B313-0.5-8.0	13A0664-01	Soil		SM 2540G SM2580 A SW-846 7196A SW-846 9045C	

CASE NARRATIVE SUMMARY

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

SM2580 A

Qualifications:

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Oxidation/Reduction Potential

13A0664-01[B313-0.5-8.0], B066727-DUP1

SW-846 7196A

Qualifications:

Elevated method reporting limit due to intense color of sample

Analyte & Samples(s) Qualified:

Hexavalent Chromium

13A0664-01[B313-0.5-8.0]

SW-846 9045C

Qualifications:

Analysis was requested after the recommended holding time had passed.


Analyte & Samples(s) Qualified:

pH

13A0664-01[B313-0.5-8.0], B066726-DUP1

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: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0664

Date Received: 1/25/2013

Field Sample #: B313-0.5-8.0

Sampled: 1/4/2013 09:00

Sample ID: 13A0664-01

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
Hexavalent Chromium	ND	0.34	mg/Kg dry	2	W-06	SW-846 7196A	1/31/13	2/2/13 12:30	AED
Oxidation/Reduction Potential	75		mV	1	H-10	SM2580 A	1/25/13	1/25/13 14:20	AED
pH @21.1°C	7.6		pH Units	1	H-10	SW-846 9045C	1/25/13	1/25/13 14:20	AED
% Solids	91.3		% Wt	1		SM 2540G	1/29/13	1/30/13 9:18	RH

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

Lab Number [Field ID]	Batch	Date
13A0664-01 [B313-0.5-8.0]	B066864	01/29/13

SM2580 A

Lab Number [Field ID]	Batch	Initial [g]	Date
13A0664-01 [B313-0.5-8.0]	B066727	20.0	01/25/13

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0664-01 [B313-0.5-8.0]	B067060	2.55	100	01/31/13

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
13A0664-01 [B313-0.5-8.0]	B066726	20.0	01/25/13

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 B066726 - SW-846 9045C										
LCS (B066726-BS1)				Prepared & Analyzed: 01/25/13						
pH	6.01		pH Units	6.00		100	93.7-106			
Duplicate (B066726-DUP1)				Source: 13A0664-01		Prepared & Analyzed: 01/25/13				
pH	7.7		pH Units		7.6			0.916	7.49	H-10
Batch B066727 - SM2580 A										
Duplicate (B066727-DUP1)				Source: 13A0664-01		Prepared & Analyzed: 01/25/13				
Oxidation/Reduction Potential	65.0		mV		75			14.3	16.2	H-10
Batch B067060 - SW-846 7196A										
Blank (B067060-BLK1)				Prepared: 01/31/13 Analyzed: 02/02/13						
Hexavalent Chromium	ND	0.16	mg/Kg wet							
LCS (B067060-BS1)				Prepared: 01/31/13 Analyzed: 02/02/13						
Hexavalent Chromium	140	4.0	mg/Kg wet	145		98.3	80-120			
LCS Dup (B067060-BSD1)				Prepared: 01/31/13 Analyzed: 02/02/13						
Hexavalent Chromium	160	4.0	mg/Kg wet	145		108	80-120	9.09	20	
Matrix Spike (B067060-MS1) Soluble MS				Source: 13A0664-01		Prepared: 01/31/13 Analyzed: 02/02/13				
Hexavalent Chromium	34	1.7	mg/Kg dry	42.4	ND	79.7	75-125			
Matrix Spike (B067060-MS2) PDMS				Source: 13A0664-01		Prepared: 01/31/13 Analyzed: 02/02/13				
Hexavalent Chromium	34	1.7	mg/Kg dry	43.2	ND	78.2	75-125			
Matrix Spike (B067060-MS3) Insoluble MS				Source: 13A0664-01		Prepared: 01/31/13 Analyzed: 02/02/13				
Hexavalent Chromium	570	17	mg/Kg dry	692	ND	83.0	75-125			
Matrix Spike Dup (B067060-MSD1) Soluble MS Dup				Source: 13A0664-01		Prepared: 01/31/13 Analyzed: 02/02/13				
Hexavalent Chromium	37	1.7	mg/Kg dry	43.4	ND	85.8	75-125	9.47	35	

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-10 Analysis was requested after the recommended holding time had passed.
 - W-06 Elevated method reporting limit due to intense color of sample

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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SW-846 7196A in Soil

Hexavalent Chromium NY,CT,NH,NC,ME,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 9 of 11

Company Name: Kleinfelder
Address: 215 1st St. Suite 320
Cambridge MA 02142

Attention: Martha Zibel

Project Location: Cambridge - Concord Ave
Sampled By: Nathan Hand

Project Proposal Provided? (for billing purposes)
Yes/No

Client PO#

DATA DELIVERY (check all that apply)
Fax #
Email: mzibel@kleinfelder.com

Format: WPDF, EXCEL, OGIS

Rev 04.05.12
13A0664

Table with columns: # of Containers, Preservation, Container Code, Dissolved Metals, Field Filtered, Lab to Filter

Main data table with columns: Con-Test Lab ID, Client Sample ID / Description, Beginning Date/Time, Ending Date/Time, Composite, Grab, Lab Code, Matrix Code, Matrix Code

Comments: B347-0.5_10.5 has 4 bottles only. 3 Vials and 1 8oz. Amber.

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

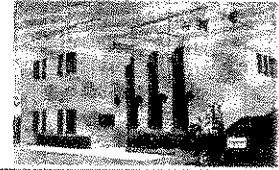
Relinquished by: (signature) Date/Time: 1/4/13
Turnaround Time: 7-Day, 10-Day, Other
RUSH?
Detection Limit Requirements: RCP-2

Received by: (signature) Date/Time: 1/15/13
Relinquished by: (signature) Date/Time: 1/15/13
Requested by: (signature) Date/Time: 1/15/13

Is your project MCP or RCP?
MCP Form Required
RCP Form Required
MA State DW Form Required
PWSID #
NELAC & AIHA-LAP, LLC
WBE/DBE Certified

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

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



Sample Receipt Checklist

CLIENT NAME: K. RINFELDER RECEIVED BY: WF DATE: 1-15-13

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

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1

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

7) Location where samples are stored: 1A

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>5</u>
500 mL Amber		4 oz amber/clear jar	<u>2</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>9</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol <u>3</u> Doc# 277: # Bisulfate <u>6</u> # DI Water _____ Rev. 3 May 2012: # Thiosulfate _____ Unpreserved _____	Time and Date Frozen: _____
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MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory Project #: 13A0664
 Project Location: Cambridge-Concord Ave. RTN: _____

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
13A0664-01

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 (X)	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	8082 PCB CAM V A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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

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

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

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

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

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

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

Signature: _____ Michael A. Erickson Position: Laboratory Director
 Printed Name: Michael A. Erickson Date: 02/01/13

February 5, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge-Concord Ave.
Client Job Number:
Project Number: 2012256.01-A
Laboratory Work Order Number: 13A0672

Enclosed are results of analyses for samples received by the laboratory on January 25, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager



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

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 2/5/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2012256.01-A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0672

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

PROJECT LOCATION: Cambridge-Concord Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B349-0.5-8.5	13A0672-01	Soil		SM 2540G	MA M-MA071/CT PH-0520
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
B324-0.5-1.9	13A0672-02	Soil		SM 2540G	MA M-MA071/CT PH-0520
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	

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.

SW-846 8015C**Qualifications:**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

13A0672-02[B324-0.5-1.9]

Sample contamination does not match any reference standard. Majority of contamination falls within the C16-C36 hydrocarbon range. Sample chromatogram also shows the presence of PAH's.

Analyte & Samples(s) Qualified:**TPH (C9-C36)**

13A0672-02[B324-0.5-1.9]

Sample contamination does not match any reference standard. Majority of contamination falls within the C22-C36 hydrocarbon range.

Analyte & Samples(s) Qualified:**TPH (C9-C36)**

13A0672-01[B349-0.5-8.5]

SW-846 8260C**Qualifications:**

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:**Vinyl Chloride**

B066783-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:**Chloromethane, Dichlorodifluoromethane (Freon 12)**

B066783-BSD1, B066783-BS1

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

Analyte & Samples(s) Qualified:**Bromomethane, Chloromethane, Naphthalene**

13A0672-01[B349-0.5-8.5], 13A0672-02[B324-0.5-1.9], B066783-BLK1, B066783-BS1, B066783-BSD1

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

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane, Tetrahydrofuran**

13A0672-01[B349-0.5-8.5], 13A0672-02[B324-0.5-1.9], B066783-BLK1, B066783-BS1, B066783-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:**Acetone**

B066783-BS1, B066783-BSD1

SW-846 8270D

Qualifications:

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:

Di-n-octylphthalate

B066776-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:

4-Chloroaniline

13A0672-01[B349-0.5-8.5], 13A0672-02[B324-0.5-1.9], B066776-BLK1, B066776-BS1, B066776-BSD1

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

Analyte & Samples(s) Qualified:

4-Nitrophenol

13A0672-01[B349-0.5-8.5], 13A0672-02[B324-0.5-1.9], B066776-BLK1, B066776-BS1, B066776-BSD1

SW-846 8260C

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

SW-846 8270D

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: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.13	0.13	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Benzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Bromobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Bromochloromethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Bromodichloromethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Bromoform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Bromomethane	ND	0.013	mg/Kg dry	1	V-05	SW-846 8260C	1/28/13	1/28/13 14:59	MFF
2-Butanone (MEK)	ND	0.052	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
n-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
sec-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
tert-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Carbon Disulfide	ND	0.0078	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Carbon Tetrachloride	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Chlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Chloroform	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Chloromethane	ND	0.013	mg/Kg dry	1	V-05	SW-846 8260C	1/28/13	1/28/13 14:59	MFF
2-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
4-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1	V-16	SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Dibromomethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,3-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,4-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,1-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,1-Dichloroethylene	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
cis-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
trans-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
2,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,1-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Diethyl Ether	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Diisopropyl Ether (DIPE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,4-Dioxane	ND	0.13	mg/Kg dry	1	V-16	SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Ethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
2-Hexanone (MBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Isopropylbenzene (Cumene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Naphthalene	ND	0.0052	mg/Kg dry	1	V-05	SW-846 8260C	1/28/13	1/28/13 14:59	MFF
n-Propylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Styrene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Tetrachloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1	V-16	SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Toluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2,3-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2,4-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,1,1-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,1,2-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Trichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2,3-Trichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,2,4-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
1,3,5-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
m+p Xylene	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF
o-Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 14:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	128	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	100	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

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 8270D	1/28/13	1/28/13 17:37	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Butylbenzylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
4-Chloroaniline	ND	0.74	mg/Kg dry	1	R-05	SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Dimethylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Di-n-octylphthalate	ND	0.74	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

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	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
4-Nitrophenol	ND	0.74	mg/Kg dry	1	V-05	SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 17:37	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		92.7	30-130					1/28/13 17:37	
Phenol-d6		88.4	30-130					1/28/13 17:37	
Nitrobenzene-d5		79.0	30-130					1/28/13 17:37	
2-Fluorobiphenyl		89.2	30-130					1/28/13 17:37	
2,4,6-Tribromophenol		97.6	30-130					1/28/13 17:37	
Terphenyl-d14		116	30-130					1/28/13 17:37	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

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	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:10	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		39.3	30-150					1/31/13 16:10	
Decachlorobiphenyl [2]		37.7	30-150					1/31/13 16:10	
Tetrachloro-m-xylene [1]		36.4	30-150					1/31/13 16:10	
Tetrachloro-m-xylene [2]		37.6	30-150					1/31/13 16:10	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	13	9.4	mg/Kg dry	1	Z-01a	SW-846 8015C	1/28/13	1/28/13 17:38	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		103		40-140				1/28/13 17:38	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.6	2.7	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:47	OP
Barium	26	2.7	mg/Kg dry	1		SW-846 6010C	1/28/13	1/31/13 21:37	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/28/13	1/31/13 21:37	OP
Chromium	12	0.54	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:47	OP
Lead	4.9	0.82	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:47	OP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/30/13	1/31/13 12:37	SAJ
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:47	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:47	OP

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

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
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	1/28/13	1/29/13 15:51	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/28/13	1/30/13 11:00	LL
Specific conductance	20	2.0	µmhos/cm	1		SM18-20 2510B	2/1/13	2/1/13 11:30	CM
% Solids	88.7		% Wt	1		SM 2540G	1/29/13	1/30/13 9:18	RH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B349-0.5-8.5

Sampled: 1/14/2013 16:00

Sample ID: 13A0672-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-8

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	>200	75	°F	1		SW-846 1010		2/1/13 0:00	SAL

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.19	0.17	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Benzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Bromobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Bromochloromethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Bromodichloromethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Bromoform	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Bromomethane	ND	0.017	mg/Kg dry	1	V-05	SW-846 8260C	1/28/13	1/28/13 15:27	MFF
2-Butanone (MEK)	ND	0.069	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
n-Butylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
sec-Butylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
tert-Butylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Carbon Disulfide	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Carbon Tetrachloride	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Chlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Chlorodibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Chloroform	ND	0.0069	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Chloromethane	ND	0.017	mg/Kg dry	1	V-05	SW-846 8260C	1/28/13	1/28/13 15:27	MFF
2-Chlorotoluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
4-Chlorotoluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0035	mg/Kg dry	1	V-16	SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2-Dibromoethane (EDB)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Dibromomethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2-Dichlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,3-Dichlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,4-Dichlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,1-Dichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2-Dichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,1-Dichloroethylene	ND	0.0069	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
cis-1,2-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
trans-1,2-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2-Dichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,3-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
2,2-Dichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,1-Dichloropropene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
cis-1,3-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
trans-1,3-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Diethyl Ether	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Diisopropyl Ether (DIPE)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,4-Dioxane	ND	0.17	mg/Kg dry	1	V-16	SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Ethylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
2-Hexanone (MBK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Isopropylbenzene (Cumene)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Naphthalene	ND	0.0069	mg/Kg dry	1	V-05	SW-846 8260C	1/28/13	1/28/13 15:27	MFF
n-Propylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Styrene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Tetrachloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Tetrahydrofuran	ND	0.017	mg/Kg dry	1	V-16	SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Toluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,1,1-Trichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,1,2-Trichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Trichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2,3-Trichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
Vinyl Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
m+p Xylene	ND	0.0069	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF
o-Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/28/13	1/28/13 15:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	122	70-130	
Toluene-d8	99.3	70-130	
4-Bromofluorobenzene	85.7	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Acenaphthylene	ND	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Acetophenone	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Aniline	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Anthracene	1.8	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Benzo(a)anthracene	2.8	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Benzo(a)pyrene	2.4	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Benzo(b)fluoranthene	2.4	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Benzo(g,h,i)perylene	1.3	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Benzo(k)fluoranthene	0.97	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Bis(2-chloroethoxy)methane	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Bis(2-chloroethyl)ether	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Bis(2-chloroisopropyl)ether	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Bis(2-Ethylhexyl)phthalate	1.3	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
4-Bromophenylphenylether	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Butylbenzylphthalate	ND	1.8	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
4-Chloroaniline	ND	1.8	mg/Kg dry	1	R-05	SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2-Chloronaphthalene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2-Chlorophenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Chrysene	2.5	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Dibenz(a,h)anthracene	ND	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Dibenzofuran	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Di-n-butylphthalate	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
1,2-Dichlorobenzene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
1,3-Dichlorobenzene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
1,4-Dichlorobenzene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
3,3-Dichlorobenzidine	ND	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2,4-Dichlorophenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Diethylphthalate	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2,4-Dimethylphenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Dimethylphthalate	ND	1.8	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2,4-Dinitrophenol	ND	1.8	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2,4-Dinitrotoluene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2,6-Dinitrotoluene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Di-n-octylphthalate	ND	1.8	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Fluoranthene	4.6	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Fluorene	0.59	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Hexachlorobenzene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Hexachlorobutadiene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Hexachloroethane	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Indeno(1,2,3-cd)pyrene	1.5	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Isophorone	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2-Methylnaphthalene	ND	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

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	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
3/4-Methylphenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Naphthalene	ND	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Nitrobenzene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2-Nitrophenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
4-Nitrophenol	ND	1.8	mg/Kg dry	1	V-05	SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Pentachlorophenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Phenanthrene	5.4	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Phenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Pyrene	5.1	0.48	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
1,2,4-Trichlorobenzene	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2,4,5-Trichlorophenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
2,4,6-Trichlorophenol	ND	0.95	mg/Kg dry	1		SW-846 8270D	1/28/13	1/28/13 16:55	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		71.3	30-130					1/28/13 16:55	
Phenol-d6		73.6	30-130					1/28/13 16:55	
Nitrobenzene-d5		81.2	30-130					1/28/13 16:55	
2-Fluorobiphenyl		86.4	30-130					1/28/13 16:55	
2,4,6-Tribromophenol		47.1	30-130					1/28/13 16:55	
Terphenyl-d14		103	30-130					1/28/13 16:55	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

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	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 16:23	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		34.7	30-150					1/31/13 16:23	
Decachlorobiphenyl [2]		34.4	30-150					1/31/13 16:23	
Tetrachloro-m-xylene [1]		33.8	30-150					1/31/13 16:23	
Tetrachloro-m-xylene [2]		35.2	30-150					1/31/13 16:23	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

Sample Matrix: Soil

Sample Flags: DL-03

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	210	23	mg/Kg dry	1	Z-01	SW-846 8015C	1/28/13	1/28/13 17:56	SCS
Surrogates		% Recovery			Recovery Limits				Flag
o-Terphenyl		105			40-140			1/28/13 17:56	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	22	3.2	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:52	OP
Barium	120	3.2	mg/Kg dry	1		SW-846 6010C	1/28/13	1/31/13 21:43	OP
Cadmium	0.47	0.32	mg/Kg dry	1		SW-846 6010C	1/28/13	1/31/13 21:43	OP
Chromium	11	0.65	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:52	OP
Lead	130	0.97	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:52	OP
Mercury	0.12	0.035	mg/Kg dry	1		SW-846 7471B	1/30/13	1/31/13 12:39	SAJ
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:52	OP
Silver	ND	0.65	mg/Kg dry	1		SW-846 6010C	1/28/13	2/1/13 17:52	OP

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Sampled: 1/17/2013 09:00

Field Sample #: B324-0.5-1.9

Sample ID: 13A0672-02

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
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	1/28/13	1/29/13 15:51	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/28/13	1/30/13 11:00	LL
Specific conductance	8.9	2.0	µmhos/cm	1		SM18-20 2510B	2/1/13	2/1/13 11:30	CM
% Solids	71.1		% Wt	1		SM 2540G	1/29/13	1/30/13 9:18	RH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13A0672

Date Received: 1/25/2013

Field Sample #: B324-0.5-1.9

Sampled: 1/17/2013 09:00

Sample ID: 13A0672-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-8

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	>200	75	°F	1		SW-846 1010		2/1/13 0:00	SAL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0672-01 [B349-0.5-8.5]	B066864	01/29/13
13A0672-02 [B324-0.5-1.9]	B066864	01/29/13

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
13A0672-01 [B349-0.5-8.5]	B067077	1.00	02/01/13
13A0672-02 [B324-0.5-1.9]	B067077	1.00	02/01/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066759	1.04	50.0	01/28/13
13A0672-02 [B324-0.5-1.9]	B066759	1.09	50.0	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066907	0.605	50.0	01/30/13
13A0672-02 [B324-0.5-1.9]	B066907	0.604	50.0	01/30/13

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066757	30.0	1.00	01/28/13
13A0672-02 [B324-0.5-1.9]	B066757	15.0	1.00	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066767	10.1	10.0	01/28/13
13A0672-02 [B324-0.5-1.9]	B066767	10.1	10.0	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066783	4.33	10.0	01/28/13
13A0672-02 [B324-0.5-1.9]	B066783	4.06	10.0	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066776	30.0	1.00	01/28/13
13A0672-02 [B324-0.5-1.9]	B066776	15.1	1.00	01/28/13

Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066790	25.4	250	01/28/13
13A0672-02 [B324-0.5-1.9]	B066790	25.3	250	01/28/13

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0672-01 [B349-0.5-8.5]	B066789	25.4	250	01/28/13
13A0672-02 [B324-0.5-1.9]	B066789	25.3	250	01/28/13

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 B066783 - SW-846 5035

Blank (B066783-BLK1)

Prepared & Analyzed: 01/28/13

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							V-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							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							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B066783 - SW-846 5035

Blank (B066783-BLK1)

Prepared & Analyzed: 01/28/13

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	0.0562		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.2	70-130			

LCS (B066783-BS1)

Prepared & Analyzed: 01/28/13

Acetone	0.198	0.10	mg/Kg wet	0.200		99.1	40-160			V-20 †
tert-Amyl Methyl Ether (TAME)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Benzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromochloromethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromodichloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Bromoform	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
Bromomethane	0.0208	0.010	mg/Kg wet	0.0200		104	40-160			V-05 †
2-Butanone (MEK)	0.194	0.040	mg/Kg wet	0.200		96.9	40-160			†
n-Butylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
sec-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
tert-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130			
Carbon Disulfide	0.0184	0.0060	mg/Kg wet	0.0200		92.1	70-130			
Carbon Tetrachloride	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130			
Chlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
Chlorodibromomethane	0.0193	0.0010	mg/Kg wet	0.0200		96.3	70-130			
Chloroethane	0.0190	0.010	mg/Kg wet	0.0200		95.0	70-130			
Chloroform	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130			
Chloromethane	0.0142	0.010	mg/Kg wet	0.0200		71.2	40-160			V-05 †
2-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
4-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			V-16
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.0	70-130			
Dibromomethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,4-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	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 B066783 - SW-846 5035										
LCS (B066783-BS1)										
Prepared & Analyzed: 01/28/13										
Dichlorodifluoromethane (Freon 12)	0.00920	0.010	mg/Kg wet	0.0200		46.0	40-160			L-14 †
1,1-Dichloroethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,2-Dichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloroethylene	0.0193	0.0040	mg/Kg wet	0.0200		96.3	70-130			
cis-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
trans-1,2-Dichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130			
2,2-Dichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1-Dichloropropene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130			
Diethyl Ether	0.0196	0.010	mg/Kg wet	0.0200		97.9	70-130			
Diisopropyl Ether (DIPE)	0.0245	0.0010	mg/Kg wet	0.0200		122	70-130			
1,4-Dioxane	0.165	0.10	mg/Kg wet	0.200		82.5	40-160			V-16 †
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Hexachlorobutadiene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
2-Hexanone (MBK)	0.191	0.020	mg/Kg wet	0.200		95.4	40-160			†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0230	0.0040	mg/Kg wet	0.0200		115	70-130			
Methylene Chloride	0.0230	0.010	mg/Kg wet	0.0200		115	70-130			
4-Methyl-2-pentanone (MIBK)	0.197	0.020	mg/Kg wet	0.200		98.5	40-160			†
Naphthalene	0.0174	0.0040	mg/Kg wet	0.0200		87.1	70-130			V-05
n-Propylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Styrene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1,2-Tetrachloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2,2-Tetrachloroethane	0.0190	0.0010	mg/Kg wet	0.0200		94.8	70-130			
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Tetrahydrofuran	0.0189	0.010	mg/Kg wet	0.0200		94.3	70-130			V-16
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
1,2,3-Trichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,1-Trichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichlorofluoromethane (Freon 11)	0.0186	0.010	mg/Kg wet	0.0200		93.0	70-130			
1,2,3-Trichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,2,4-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3,5-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Vinyl Chloride	0.0143	0.010	mg/Kg wet	0.0200		71.4	70-130			
m+p Xylene	0.0419	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0548		mg/Kg wet	0.0500		110	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.6	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 B066783 - SW-846 5035										
LCS Dup (B066783-BSD1)										
Prepared & Analyzed: 01/28/13										
Acetone	0.190	0.10	mg/Kg wet	0.200		94.9	40-160	4.38	20	V-20 †
tert-Amyl Methyl Ether (TAME)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	1.03	20	
Benzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.86	20	
Bromobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	3.09	20	
Bromochloromethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	1.11	20	
Bromodichloromethane	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130	1.31	20	
Bromoform	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130	0.332	20	
Bromomethane	0.0189	0.010	mg/Kg wet	0.0200		94.4	40-160	9.49	20	V-05 †
2-Butanone (MEK)	0.191	0.040	mg/Kg wet	0.200		95.5	40-160	1.47	20	†
n-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	5.43	20	
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	3.71	20	
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.26	20	
tert-Butyl Ethyl Ether (TBEE)	0.0223	0.0010	mg/Kg wet	0.0200		112	70-130	1.42	20	
Carbon Disulfide	0.0175	0.0060	mg/Kg wet	0.0200		87.7	70-130	4.89	20	
Carbon Tetrachloride	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	0.426	20	
Chlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	3.12	20	
Chlorodibromomethane	0.0188	0.0010	mg/Kg wet	0.0200		94.1	70-130	2.31	20	
Chloroethane	0.0186	0.010	mg/Kg wet	0.0200		93.1	70-130	2.02	20	
Chloroform	0.0222	0.0040	mg/Kg wet	0.0200		111	70-130	2.05	20	
Chloromethane	0.0134	0.010	mg/Kg wet	0.0200		66.9	40-160	6.23	20	L-14, V-05 †
2-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	2.29	20	
4-Chlorotoluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.29	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130	6.78	20	V-16
1,2-Dibromoethane (EDB)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	2.22	20	
Dibromomethane	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	3.11	20	
1,2-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130	5.87	20	
1,3-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	4.11	20	
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	4.92	20	
Dichlorodifluoromethane (Freon 12)	0.00830	0.010	mg/Kg wet	0.0200		41.5	40-160	10.3	20	L-14 †
1,1-Dichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	1.17	20	
1,2-Dichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	0.287	20	
1,1-Dichloroethylene	0.0183	0.0040	mg/Kg wet	0.0200		91.6	70-130	5.00	20	
cis-1,2-Dichloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	1.95	20	
trans-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	1.03	20	
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.96	20	
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		99.8	70-130	0.603	20	
2,2-Dichloropropane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	2.94	20	
1,1-Dichloropropene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.647	20	
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130	2.01	20	
trans-1,3-Dichloropropene	0.0215	0.0010	mg/Kg wet	0.0200		108	70-130	2.16	20	
Diethyl Ether	0.0183	0.010	mg/Kg wet	0.0200		91.7	70-130	6.54	20	
Diisopropyl Ether (DIPE)	0.0243	0.0010	mg/Kg wet	0.0200		122	70-130	0.655	20	
1,4-Dioxane	0.175	0.10	mg/Kg wet	0.200		87.7	40-160	6.15	20	V-16 †
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	3.07	20	
Hexachlorobutadiene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	6.68	20	
2-Hexanone (MBK)	0.194	0.020	mg/Kg wet	0.200		96.8	40-160	1.48	20	†
Isopropylbenzene (Cumene)	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.76	20	
p-Isopropyltoluene (p-Cymene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	4.25	20	
Methyl tert-Butyl Ether (MTBE)	0.0225	0.0040	mg/Kg wet	0.0200		112	70-130	2.37	20	
Methylene Chloride	0.0221	0.010	mg/Kg wet	0.0200		111	70-130	3.81	20	
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.200		101	40-160	1.99	20	†
Naphthalene	0.0179	0.0040	mg/Kg wet	0.0200		89.7	70-130	2.94	20	V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B066783 - SW-846 5035										
LCS Dup (B066783-BSD1)										
Prepared & Analyzed: 01/28/13										
n-Propylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.66	20	
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.27	20	
1,1,1,2-Tetrachloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	0.684	20	
1,1,2,2-Tetrachloroethane	0.0185	0.0010	mg/Kg wet	0.0200		92.4	70-130	2.56	20	
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	0.290	20	
Tetrahydrofuran	0.0177	0.010	mg/Kg wet	0.0200		88.3	70-130	6.57	20	V-16
Toluene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130	0.508	20	
1,2,3-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.45	20	
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	4.99	20	
1,1,1-Trichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	2.59	20	
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	2.10	20	
Trichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	0.581	20	
Trichlorofluoromethane (Freon 11)	0.0178	0.010	mg/Kg wet	0.0200		88.9	70-130	4.51	20	
1,2,3-Trichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	0.945	20	
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	2.84	20	
1,3,5-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	1.14	20	
Vinyl Chloride	0.0137	0.010	mg/Kg wet	0.0200		68.6 *	70-130	4.00	20	L-07
m+p Xylene	0.0413	0.0040	mg/Kg wet	0.0400		103	70-130	1.54	20	
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.387	20	
Surrogate: 1,2-Dichloroethane-d4	0.0550		mg/Kg wet	0.0500		110	70-130			
Surrogate: Toluene-d8	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	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 B066776 - SW-846 3546

Blank (B066776-BLK1)

Prepared & Analyzed: 01/28/13

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							R-05
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							V-05
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 B066776 - SW-846 3546										
Blank (B066776-BLK1)										
Prepared & Analyzed: 01/28/13										
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	5.84		mg/Kg wet	6.67		87.6	30-130			
Surrogate: Phenol-d6	5.66		mg/Kg wet	6.67		84.8	30-130			
Surrogate: Nitrobenzene-d5	2.56		mg/Kg wet	3.33		76.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.81		mg/Kg wet	3.33		84.2	30-130			
Surrogate: 2,4,6-Tribromophenol	6.88		mg/Kg wet	6.67		103	30-130			
Surrogate: Terphenyl-d14	3.80		mg/Kg wet	3.33		114	30-130			
LCS (B066776-BS1)										
Prepared & Analyzed: 01/28/13										
Acenaphthene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140			
Acenaphthylene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140			
Acetophenone	1.34	0.34	mg/Kg wet	1.67		80.2	40-140			
Aniline	1.14	0.34	mg/Kg wet	1.67		68.3	40-140			
Anthracene	1.58	0.17	mg/Kg wet	1.67		95.1	40-140			
Benzo(a)anthracene	1.63	0.17	mg/Kg wet	1.67		98.0	40-140			
Benzo(a)pyrene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Benzo(b)fluoranthene	2.03	0.17	mg/Kg wet	1.67		122	40-140			
Benzo(g,h,i)perylene	0.749	0.17	mg/Kg wet	1.67		45.0	40-140			
Benzo(k)fluoranthene	1.90	0.17	mg/Kg wet	1.67		114	40-140			
Bis(2-chloroethoxy)methane	1.47	0.34	mg/Kg wet	1.67		88.0	40-140			
Bis(2-chloroethyl)ether	1.43	0.34	mg/Kg wet	1.67		85.8	40-140			
Bis(2-chloroisopropyl)ether	1.20	0.34	mg/Kg wet	1.67		71.9	40-140			
Bis(2-Ethylhexyl)phthalate	1.75	0.34	mg/Kg wet	1.67		105	40-140			
4-Bromophenylphenylether	1.63	0.34	mg/Kg wet	1.67		97.6	40-140			
Butylbenzylphthalate	1.76	0.66	mg/Kg wet	1.67		105	40-140			
4-Chloroaniline	0.806	0.66	mg/Kg wet	1.67		48.4	15-140			R-05 †
2-Chloronaphthalene	1.44	0.34	mg/Kg wet	1.67		86.4	40-140			
2-Chlorophenol	1.49	0.34	mg/Kg wet	1.67		89.2	30-130			
Chrysene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
Dibenz(a,h)anthracene	0.949	0.17	mg/Kg wet	1.67		56.9	40-140			
Dibenzofuran	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
Di-n-butylphthalate	1.66	0.34	mg/Kg wet	1.67		99.6	40-140			
1,2-Dichlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.1	40-140			
1,3-Dichlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.8	40-140			
1,4-Dichlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.5	40-140			
3,3-Dichlorobenzidine	1.38	0.17	mg/Kg wet	1.67		83.0	40-140			
2,4-Dichlorophenol	1.59	0.34	mg/Kg wet	1.67		95.3	30-130			
Diethylphthalate	1.52	0.34	mg/Kg wet	1.67		91.3	40-140			
2,4-Dimethylphenol	1.64	0.34	mg/Kg wet	1.67		98.6	30-130			
Dimethylphthalate	1.56	0.66	mg/Kg wet	1.67		93.8	40-140			
2,4-Dinitrophenol	1.44	0.66	mg/Kg wet	1.67		86.7	15-140			†
2,4-Dinitrotoluene	1.51	0.34	mg/Kg wet	1.67		90.8	40-140			
2,6-Dinitrotoluene	1.61	0.34	mg/Kg wet	1.67		96.8	40-140			
Di-n-octylphthalate	2.37	0.66	mg/Kg wet	1.67		142 *	40-140			L-07
1,2-Diphenylhydrazine (as Azobenzene)	1.45	0.34	mg/Kg wet	1.67		87.0	40-140			
Fluoranthene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Fluorene	1.55	0.17	mg/Kg wet	1.67		93.0	40-140			
Hexachlorobenzene	1.71	0.34	mg/Kg wet	1.67		102	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 B066776 - SW-846 3546

LCS (B066776-BS1)

Prepared & Analyzed: 01/28/13

Hexachlorobutadiene	1.44	0.34	mg/Kg wet	1.67		86.4	40-140			
Hexachloroethane	1.30	0.34	mg/Kg wet	1.67		78.3	40-140			
Indeno(1,2,3-cd)pyrene	0.880	0.17	mg/Kg wet	1.67		52.8	40-140			
Isophorone	1.40	0.34	mg/Kg wet	1.67		83.7	40-140			
2-Methylnaphthalene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140			
2-Methylphenol	1.50	0.34	mg/Kg wet	1.67		89.8	30-130			
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.3	30-130			
Naphthalene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140			
Nitrobenzene	1.26	0.34	mg/Kg wet	1.67		75.6	40-140			
2-Nitrophenol	1.53	0.34	mg/Kg wet	1.67		91.7	30-130			
4-Nitrophenol	0.638	0.66	mg/Kg wet	1.67		38.3	15-140			V-05 †
Pentachlorophenol	1.75	0.34	mg/Kg wet	1.67		105	30-130			
Phenanthrene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140			
Phenol	1.43	0.34	mg/Kg wet	1.67		85.6	15-140			†
Pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
1,2,4-Trichlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.4	40-140			
2,4,5-Trichlorophenol	1.47	0.34	mg/Kg wet	1.67		88.4	30-130			
2,4,6-Trichlorophenol	1.65	0.34	mg/Kg wet	1.67		98.9	30-130			
Surrogate: 2-Fluorophenol	6.14		mg/Kg wet	6.67		92.2	30-130			
Surrogate: Phenol-d6	5.96		mg/Kg wet	6.67		89.4	30-130			
Surrogate: Nitrobenzene-d5	2.69		mg/Kg wet	3.33		80.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.98		mg/Kg wet	3.33		89.4	30-130			
Surrogate: 2,4,6-Tribromophenol	7.90		mg/Kg wet	6.67		118	30-130			
Surrogate: Terphenyl-d14	3.84		mg/Kg wet	3.33		115	30-130			

LCS Dup (B066776-BS1)

Prepared & Analyzed: 01/28/13

Acenaphthene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	0.0223	30	
Acenaphthylene	1.47	0.17	mg/Kg wet	1.67		88.1	40-140	1.69	30	
Acetophenone	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	0.350	30	
Aniline	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	4.30	30	
Anthracene	1.58	0.17	mg/Kg wet	1.67		94.7	40-140	0.379	30	
Benzo(a)anthracene	1.61	0.17	mg/Kg wet	1.67		96.6	40-140	1.44	30	
Benzo(a)pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140	2.13	30	
Benzo(b)fluoranthene	1.90	0.17	mg/Kg wet	1.67		114	40-140	6.35	30	
Benzo(g,h,i)perylene	0.764	0.17	mg/Kg wet	1.67		45.8	40-140	1.89	30	
Benzo(k)fluoranthene	1.88	0.17	mg/Kg wet	1.67		113	40-140	1.39	30	
Bis(2-chloroethoxy)methane	1.50	0.34	mg/Kg wet	1.67		90.0	40-140	2.22	30	
Bis(2-chloroethyl)ether	1.40	0.34	mg/Kg wet	1.67		83.9	40-140	2.31	30	
Bis(2-chloroisopropyl)ether	1.16	0.34	mg/Kg wet	1.67		69.6	40-140	3.25	30	
Bis(2-Ethylhexyl)phthalate	1.66	0.34	mg/Kg wet	1.67		99.6	40-140	5.19	30	
4-Bromophenylphenylether	1.62	0.34	mg/Kg wet	1.67		97.1	40-140	0.513	30	
Butylbenzylphthalate	1.73	0.66	mg/Kg wet	1.67		104	40-140	1.41	30	
4-Chloroaniline	0.498	0.66	mg/Kg wet	1.67		29.9	15-140	47.3 *	30	R-05 †
2-Chloronaphthalene	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	3.35	30	
2-Chlorophenol	1.48	0.34	mg/Kg wet	1.67		88.5	30-130	0.698	30	
Chrysene	1.68	0.17	mg/Kg wet	1.67		101	40-140	1.28	30	
Dibenz(a,h)anthracene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140	0.105	30	
Dibenzofuran	1.48	0.34	mg/Kg wet	1.67		89.1	40-140	0.834	30	
Di-n-butylphthalate	1.58	0.34	mg/Kg wet	1.67		94.7	40-140	4.96	30	
1,2-Dichlorobenzene	1.30	0.34	mg/Kg wet	1.67		77.7	40-140	4.28	30	
1,3-Dichlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	3.17	30	
1,4-Dichlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.2	40-140	4.29	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 B066776 - SW-846 3546										
LCS Dup (B066776-BSD1)										
Prepared & Analyzed: 01/28/13										
3,3-Dichlorobenzidine	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	9.59	30	
2,4-Dichlorophenol	1.61	0.34	mg/Kg wet	1.67		96.6	30-130	1.42	30	
Diethylphthalate	1.51	0.34	mg/Kg wet	1.67		90.5	40-140	0.858	30	
2,4-Dimethylphenol	1.64	0.34	mg/Kg wet	1.67		98.7	30-130	0.142	30	
Dimethylphthalate	1.56	0.66	mg/Kg wet	1.67		93.5	40-140	0.256	30	
2,4-Dinitrophenol	1.17	0.66	mg/Kg wet	1.67		70.3	15-140	20.8	30	†
2,4-Dinitrotoluene	1.58	0.34	mg/Kg wet	1.67		94.6	40-140	4.06	30	
2,6-Dinitrotoluene	1.63	0.34	mg/Kg wet	1.67		97.8	40-140	1.07	30	
Di-n-octylphthalate	2.15	0.66	mg/Kg wet	1.67		129	40-140	9.50	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	0.692	30	
Fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.3	40-140	4.73	30	
Fluorene	1.58	0.17	mg/Kg wet	1.67		94.6	40-140	1.73	30	
Hexachlorobenzene	1.64	0.34	mg/Kg wet	1.67		98.1	40-140	4.27	30	
Hexachlorobutadiene	1.37	0.34	mg/Kg wet	1.67		82.5	40-140	4.67	30	
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		75.2	40-140	4.07	30	
Indeno(1,2,3-cd)pyrene	0.884	0.17	mg/Kg wet	1.67		53.0	40-140	0.416	30	
Isophorone	1.38	0.34	mg/Kg wet	1.67		82.7	40-140	1.23	30	
2-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.67		87.3	40-140	0.0917	30	
2-Methylphenol	1.54	0.34	mg/Kg wet	1.67		92.1	30-130	2.51	30	
3/4-Methylphenol	1.51	0.34	mg/Kg wet	1.67		90.8	30-130	8.62	30	
Naphthalene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140	3.12	30	
Nitrobenzene	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	1.36	30	
2-Nitrophenol	1.54	0.34	mg/Kg wet	1.67		92.4	30-130	0.847	30	
4-Nitrophenol	0.693	0.66	mg/Kg wet	1.67		41.6	15-140	8.26	30	V-05 †
Pentachlorophenol	1.77	0.34	mg/Kg wet	1.67		106	30-130	1.32	30	
Phenanthrene	1.57	0.17	mg/Kg wet	1.67		93.9	40-140	2.00	30	
Phenol	1.44	0.34	mg/Kg wet	1.67		86.5	15-140	1.05	30	†
Pyrene	1.76	0.17	mg/Kg wet	1.67		105	40-140	3.00	30	
1,2,4-Trichlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.4	40-140	3.38	30	
2,4,5-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		88.7	30-130	0.316	30	
2,4,6-Trichlorophenol	1.68	0.34	mg/Kg wet	1.67		101	30-130	1.80	30	
Surrogate: 2-Fluorophenol	5.89		mg/Kg wet	6.67		88.3	30-130			
Surrogate: Phenol-d6	5.91		mg/Kg wet	6.67		88.7	30-130			
Surrogate: Nitrobenzene-d5	2.60		mg/Kg wet	3.33		78.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.87		mg/Kg wet	3.33		86.2	30-130			
Surrogate: 2,4,6-Tribromophenol	7.79		mg/Kg wet	6.67		117	30-130			
Surrogate: Terphenyl-d14	3.85		mg/Kg wet	3.33		116	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B066767 - SW-846 3546

Blank (B066767-BLK1)

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.164		mg/Kg wet	0.200		82.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		82.9	30-150			

LCS (B066767-BS1)

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		111	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		91.8	30-150			

LCS Dup (B066767-BSD1)

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		114	40-140	3.09	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140	0.204	30	
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		109	40-140	1.80	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140	1.24	30	
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.2	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 B066757 - SW-846 3546										
Blank (B066757-BLK1)										
Prepared & Analyzed: 01/28/13										
Fuel Oil #2	ND	8.3	mg/Kg wet							
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	3.13		mg/Kg wet	3.33		93.9	40-140			
LCS (B066757-BS1)										
Prepared & Analyzed: 01/28/13										
Fuel Oil #2	28.9	8.3	mg/Kg wet	33.3		86.6	40-140			
TPH (C9-C36)	28.9	8.3	mg/Kg wet	33.3		86.6	40-140			
Surrogate: o-Terphenyl	3.04		mg/Kg wet	3.33		91.2	40-140			
LCS Dup (B066757-BSD1)										
Prepared & Analyzed: 01/28/13										
Fuel Oil #2	25.8	8.3	mg/Kg wet	33.3		77.3	40-140	11.4	25	
TPH (C9-C36)	25.8	8.3	mg/Kg wet	33.3		77.3	40-140	11.4	25	
Surrogate: o-Terphenyl	2.66		mg/Kg wet	3.33		79.8	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B066759 - SW-846 3050B

Blank (B066759-BLK1)

Prepared: 01/28/13 Analyzed: 02/01/13

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 (B066759-BS1)

Prepared: 01/28/13 Analyzed: 02/01/13

Arsenic	92.2	5.0	mg/Kg wet	94.5		97.6	82.2-117.5			
Barium	164	5.0	mg/Kg wet	166		98.8	83.1-116.3			
Cadmium	59.5	0.50	mg/Kg wet	59.9		99.3	84-115.9			
Chromium	69.6	1.0	mg/Kg wet	69.3		100	81.4-118.6			
Lead	85.0	1.5	mg/Kg wet	91.7		92.6	82.4-117.8			
Selenium	152	10	mg/Kg wet	159		95.7	79.2-120.8			
Silver	34.5	1.0	mg/Kg wet	33.9		102	66.4-133.9			

LCS Dup (B066759-BSD1)

Prepared: 01/28/13 Analyzed: 02/01/13

Arsenic	95.1	5.0	mg/Kg wet	94.5		101	82.2-117.5	3.08	30	
Barium	161	5.0	mg/Kg wet	166		96.7	83.1-116.3	2.13	30	
Cadmium	57.5	0.50	mg/Kg wet	59.9		96.0	84-115.9	3.40	30	
Chromium	70.7	1.0	mg/Kg wet	69.3		102	81.4-118.6	1.59	30	
Lead	87.8	1.5	mg/Kg wet	91.7		95.7	82.4-117.8	3.28	30	
Selenium	159	10	mg/Kg wet	159		99.8	79.2-120.8	4.16	30	
Silver	33.2	1.0	mg/Kg wet	33.9		97.9	66.4-133.9	3.90	30	

MRL Check (B066759-MRL1)

Prepared: 01/28/13 Analyzed: 02/01/13

Lead	0.677	0.74	mg/Kg wet	0.735		92.0	80-120			
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Batch B066907 - SW-846 7471

Blank (B066907-BLK1)

Prepared: 01/30/13 Analyzed: 01/31/13

Mercury	ND	0.025	mg/Kg wet							
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LCS (B066907-BS1)

Prepared: 01/30/13 Analyzed: 01/31/13

Mercury	3.99	0.33	mg/Kg wet	3.73		107	71.7-128.3			
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LCS Dup (B066907-BSD1)

Prepared: 01/30/13 Analyzed: 01/31/13

Mercury	3.81	0.33	mg/Kg wet	3.73		102	71.7-128.3	4.62	30	
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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B066789 - SW-846 9030A										
Blank (B066789-BLK1) Prepared: 01/28/13 Analyzed: 01/30/13										
Reactive Sulfide	ND	2.0	mg/Kg							
Blank (B066789-BLK2) Prepared: 01/28/13 Analyzed: 01/30/13										
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B066789-BS1) Prepared: 01/28/13 Analyzed: 01/30/13										
Reactive Sulfide	14	2.0	mg/Kg	14.9		94.0	32.9-140			
LCS (B066789-BS2) Prepared: 01/28/13 Analyzed: 01/30/13										
Reactive Sulfide	15	2.0	mg/Kg	14.9		99.3	32.9-140			
Batch B066790 - SW-846 9014										
Blank (B066790-BLK1) Prepared: 01/28/13 Analyzed: 01/29/13										
Reactive Cyanide	ND	0.40	mg/Kg							
Blank (B066790-BLK2) Prepared: 01/28/13 Analyzed: 01/29/13										
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B066790-BS1) Prepared: 01/28/13 Analyzed: 01/29/13										
Reactive Cyanide	10	0.40	mg/Kg	10.0		104	80.1-115			
LCS (B066790-BS2) Prepared: 01/28/13 Analyzed: 01/29/13										
Reactive Cyanide	10	0.40	mg/Kg	10.0		104	80.1-115			
Batch B067077 - SM18-20 2510B										
Blank (B067077-BLK1) Prepared & Analyzed: 02/01/13										
Specific conductance	ND	2.0	µmhos/cm							
LCS (B067077-BS1) Prepared & Analyzed: 02/01/13										
Specific conductance	130	2.0	µmhos/cm	147		91.6	77.3-114			

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.
DL-03	Elevated reporting limit due to matrix.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Sample contamination does not match any reference standard. Majority of contamination falls within the C16-C36 hydrocarbon range. Sample chromatogram also shows the presence of PAH's.
Z-01a	Sample contamination does not match any reference standard. Majority of contamination falls within the C22-C36 hydrocarbon range,

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME,VA
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D 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
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
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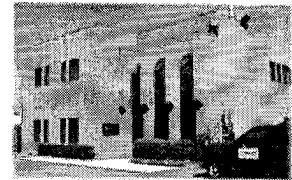
SW-846 9030A in Soil

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

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



Sample Receipt Checklist

CLIENT NAME: Klein Folber RECEIVED BY: WK DATE: 12-29-13

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

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 3-4

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

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

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

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	3 2
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below	6		PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments: _____

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

Time and Date Frozen: _____

Doc# 277
 Rev. 3 May 2012

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory Project #: 13A0672
 Project Location: Cambridge-Concord Ave. RTN: _____

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
13A0672-01 thru 13A0672-02

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 (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

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

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

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

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

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: _____ *M Erickson* Position: Laboratory Director
 Printed Name: Michael A. Erickson Date: 02/05/13

February 18, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge - Concord
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13A0847

Enclosed are results of analyses for samples received by the laboratory on January 31, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager



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

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 2/18/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0847

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

PROJECT LOCATION: Cambridge - Concord

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB					
B317 - 0.5-4.5	13A0847-01	Soil		SM 2540G	MA M-MA071/CT PH-0520					
				SM18-20 2510B						
				SW-846 1010						
				SW-846 6010C						
				SW-846 7471B						
				SW-846 8015C						
				SW-846 8082A						
				SW-846 8260C						
				SW-846 8270D						
				SW-846 9014						
				SW-846 9030A						
				B305 - 1-7		13A0847-02	Soil		SM 2540G	MA M-MA071/CT PH-0520
									SM18-20 2510B	
SW-846 1010										
SW-846 6010C										
SW-846 7471B										
SW-846 8015C										
SW-846 8082A										
SW-846 8260C										
SW-846 8270D										
SW-846 9014										
SW-846 9030A										

CASE NARRATIVE SUMMARY

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

REVISED REPORT 02/18/13 - Sample ID "D-305-1-7" changed to "B-305-1-7" per chain of custody.

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

SW-846 8015C

Qualifications:

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

13A0847-02[B305 - 1-7]

SW-846 8082A

Qualifications:

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

Analyte & Samples(s) Qualified:

13A0847-01[B317 - 0.5-4.5], 13A0847-02[B305 - 1-7]

SW-846 8260C

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:

Carbon Tetrachloride

B067261-BS1, B067261-BSD1, B067336-BS1, B067336-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:

Naphthalene

13A0847-01[B317 - 0.5-4.5], 13A0847-02[B305 - 1-7], B067261-BLK1, B067261-BS1, B067261-BSD1, B067336-BLK1, B067336-BS1, B067336-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:

2,2-Dichloropropane, Methylene Chloride

B067261-BSD1, B067261-BS1, B067336-BS1

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

Analyte & Samples(s) Qualified:

Acetone, Bromomethane

B067261-BS1, B067261-BSD1, B067336-BS1

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

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Acetone, Bromomethane, Methylene Chloride, Naphthalene, Vinyl Chloride

13A0847-01[B317 - 0.5-4.5], B067261-BLK1, B067261-BS1, B067261-BSD1, 13A0847-02[B305 - 1-7], B067336-BLK1, B067336-BS1, B067336-BSD1

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

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane, 2-Butanone (MEK), Acetone, Tetrahydrofuran

13A0847-01[B317 - 0.5-4.5], 13A0847-02[B305 - 1-7], B067261-BLK1, B067261-BS1, B067261-BSD1, B067336-BLK1, B067336-BS1, B067336-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:

2,2-Dichloropropane, Bromochloromethane, Carbon Tetrachloride

B067261-BS1, B067261-BSD1, B067336-BS1, B067336-BSD1

SW-846 8270D

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:

3/4-Methylphenol

B067324-BS1, B067324-BSD1

SW-846 8260C

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

SW-846 8270D

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.



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B317 - 0.5-4.5

Sampled: 1/25/2013 11:00

Sample ID: 13A0847-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1	V-05, V-16	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Benzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Bromobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Bromochloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Bromodichloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Bromoform	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Bromomethane	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
2-Butanone (MEK)	ND	0.054	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
n-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
sec-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
tert-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Carbon Disulfide	ND	0.0082	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Chlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Chlorodibromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Chloroform	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Chloromethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
2-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
4-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0054	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Dibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,3-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,4-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,1-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,1-Dichloroethylene	ND	0.0054	mg/Kg dry	1	V-05	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
cis-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
trans-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,1-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
cis-1,3-Dichloropropene	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
trans-1,3-Dichloropropene	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Diethyl Ether	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Diisopropyl Ether (DIPE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,4-Dioxane	ND	0.14	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Ethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B317 - 0.5-4.5

Sampled: 1/25/2013 11:00

Sample ID: 13A0847-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
2-Hexanone (MBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Isopropylbenzene (Cumene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Naphthalene	ND	0.0054	mg/Kg dry	1	L-04, V-05	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,1,1,2-Tetrachloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Tetrachloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Toluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2,3-Trichlorobenzene	ND	0.0027	mg/Kg dry	1	V-05	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2,4-Trichlorobenzene	ND	0.0027	mg/Kg dry	1	V-05	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,1,1-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,1,2-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Trichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2,3-Trichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C	2/5/13	2/5/13 9:21	MFF
m+p Xylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF
o-Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	87.1	70-130	2/5/13 9:21
Toluene-d8	101	70-130	2/5/13 9:21
4-Bromofluorobenzene	90.3	70-130	2/5/13 9:21

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B317 - 0.5-4.5

Sampled: 1/25/2013 11:00

Sample ID: 13A0847-01

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 8270D	2/6/13	2/6/13 16:04	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Butylbenzylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
4-Chloroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Dimethylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Di-n-octylphthalate	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B317 - 0.5-4.5

Sampled: 1/25/2013 11:00

Sample ID: 13A0847-01

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 8270D	2/6/13	2/6/13 16:04	CMR
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:04	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		73.8	30-130					2/6/13 16:04	
Phenol-d6		71.6	30-130					2/6/13 16:04	
Nitrobenzene-d5		83.7	30-130					2/6/13 16:04	
2-Fluorobiphenyl		90.5	30-130					2/6/13 16:04	
2,4,6-Tribromophenol		102	30-130					2/6/13 16:04	
Terphenyl-d14		109	30-130					2/6/13 16:04	



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B317 - 0.5-4.5

Sampled: 1/25/2013 11:00

Sample ID: 13A0847-01

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:34	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		84.3	30-150					2/12/13 10:34	
Decachlorobiphenyl [2]		83.9	30-150					2/12/13 10:34	
Tetrachloro-m-xylene [1]		89.8	30-150					2/12/13 10:34	
Tetrachloro-m-xylene [2]		89.2	30-150					2/12/13 10:34	



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/25/2013 11:00

Field Sample #: B317 - 0.5-4.5

Sample ID: 13A0847-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	ND	10	mg/Kg dry	1		SW-846 8015C	2/6/13	2/6/13 14:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		74.6		40-140				2/6/13 14:13	



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/25/2013 11:00

Field Sample #: B317 - 0.5-4.5

Sample ID: 13A0847-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:40	OP
Barium	89	2.9	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:40	OP
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:40	OP
Chromium	29	0.58	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:40	OP
Lead	55	0.87	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:40	OP
Mercury	0.046	0.029	mg/Kg dry	1		SW-846 7471B	2/2/13	2/4/13 14:04	SAJ
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:40	OP
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:40	OP



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/25/2013 11:00

Field Sample #: B317 - 0.5-4.5

Sample ID: 13A0847-01

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
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	2/4/13	2/5/13 14:09	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	2/4/13	2/5/13 10:45	LL
Specific conductance	14	2.0	µmhos/cm	1		SM18-20 2510B	2/1/13	2/1/13 11:30	CM
% Solids	82.9		% Wt	1		SM 2540G	2/1/13	2/2/13 10:55	RH



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/25/2013 11:00

Field Sample #: B317 - 0.5-4.5

Sample ID: 13A0847-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-8

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	>200		°F	1		SW-846 1010		2/4/13 0:00	SAL



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B305 - 1-7

Sampled: 1/28/2013 12:00

Sample ID: 13A0847-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	2/6/13	2/6/13 10:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Bromoform	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1	V-16	SW-846 8260C	2/6/13	2/6/13 10:01	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Carbon Disulfide	ND	0.0060	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Chlorodibromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg dry	1	V-16	SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
cis-1,3-Dichloropropene	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
trans-1,3-Dichloropropene	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Diethyl Ether	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B305 - 1-7

Sampled: 1/28/2013 12:00

Sample ID: 13A0847-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1	V-05	SW-846 8260C	2/6/13	2/6/13 10:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1	L-04, V-05	SW-846 8260C	2/6/13	2/6/13 10:01	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/6/13	2/6/13 10:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	90.3	70-130	2/6/13 10:01
Toluene-d8	100	70-130	2/6/13 10:01
4-Bromofluorobenzene	94.3	70-130	2/6/13 10:01

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B305 - 1-7

Sampled: 1/28/2013 12:00

Sample ID: 13A0847-02

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 8270D	2/6/13	2/6/13 16:36	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Butylbenzylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
4-Chloroaniline	ND	0.71	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Dimethylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Di-n-octylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Fluorene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2-Methylnaphthalene	0.73	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/28/2013 12:00

Field Sample #: B305 - 1-7

Sample ID: 13A0847-02

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	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Naphthalene	0.46	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Phenanthrene	0.49	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	2/6/13	2/6/13 16:36	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		75.3	30-130					2/6/13 16:36	
Phenol-d6		73.3	30-130					2/6/13 16:36	
Nitrobenzene-d5		87.5	30-130					2/6/13 16:36	
2-Fluorobiphenyl		88.2	30-130					2/6/13 16:36	
2,4,6-Tribromophenol		118	30-130					2/6/13 16:36	
Terphenyl-d14		109	30-130					2/6/13 16:36	



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

Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Field Sample #: B305 - 1-7

Sampled: 1/28/2013 12:00

Sample ID: 13A0847-02

Sample Matrix: Soil

Sample Flags: O-32

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	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/8/13	2/12/13 10:46	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		86.2	30-150					2/12/13 10:46	
Decachlorobiphenyl [2]		87.0	30-150					2/12/13 10:46	
Tetrachloro-m-xylene [1]		83.4	30-150					2/12/13 10:46	
Tetrachloro-m-xylene [2]		82.4	30-150					2/12/13 10:46	



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Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/28/2013 12:00

Field Sample #: B305 - 1-7

Sample ID: 13A0847-02

Sample Matrix: Soil

Sample Flags: DL-03

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	400	18	mg/Kg dry	1		SW-846 8015C	2/6/13	2/6/13 14:30	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		80.9		40-140				2/6/13 14:30	



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Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/28/2013 12:00

Field Sample #: B305 - 1-7

Sample ID: 13A0847-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:44	OP
Barium	26	2.5	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:44	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:44	OP
Chromium	11	0.51	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:44	OP
Lead	4.2	0.76	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:44	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	2/2/13	2/4/13 14:05	SAJ
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:44	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	2/2/13	2/4/13 17:44	OP



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Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/28/2013 12:00

Field Sample #: B305 - 1-7

Sample ID: 13A0847-02

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
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	2/4/13	2/5/13 14:09	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	2/4/13	2/5/13 10:45	LL
Specific conductance	11	2.0	µmhos/cm	1		SM18-20 2510B	2/1/13	2/1/13 11:30	CM
% Solids	91.1		% Wt	1		SM 2540G	2/1/13	2/2/13 10:55	RH



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Project Location: Cambridge - Concord

Sample Description:

Work Order: 13A0847

Date Received: 1/31/2013

Sampled: 1/28/2013 12:00

Field Sample #: B305 - 1-7

Sample ID: 13A0847-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-8

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	>200		°F	1		SW-846 1010		2/4/13 0:00	SAL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0847-01 [B317 - 0.5-4.5]	B067059	02/01/13
13A0847-02 [B305 - 1-7]	B067059	02/01/13

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
13A0847-01 [B317 - 0.5-4.5]	B067077	1.00	02/01/13
13A0847-02 [B305 - 1-7]	B067077	1.00	02/01/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067103	1.04	50.0	02/02/13
13A0847-02 [B305 - 1-7]	B067103	1.08	50.0	02/02/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067127	0.615	50.0	02/02/13
13A0847-02 [B305 - 1-7]	B067127	0.611	50.0	02/02/13

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067322	30.0	1.00	02/06/13
13A0847-02 [B305 - 1-7]	B067322	15.0	1.00	02/06/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067497	10.2	10.0	02/08/13
13A0847-02 [B305 - 1-7]	B067497	10.2	10.0	02/08/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067261	4.44	10.0	02/05/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-02 [B305 - 1-7]	B067336	5.46	10.0	02/06/13

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067324	30.2	1.00	02/06/13
13A0847-02 [B305 - 1-7]	B067324	30.4	1.00	02/06/13

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067193	25.1	250	02/04/13
13A0847-02 [B305 - 1-7]	B067193	25.2	250	02/04/13

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0847-01 [B317 - 0.5-4.5]	B067192	25.1	250	02/04/13
13A0847-02 [B305 - 1-7]	B067192	25.2	250	02/04/13

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 B067261 - SW-846 5035

Blank (B067261-BLK1)

Prepared & Analyzed: 02/05/13

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.010	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							V-05
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
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							V-05
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0435		mg/Kg wet	0.0500		87.0	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0453		mg/Kg wet	0.0500		90.6	70-130			

LCS (B067261-BS1)

Prepared & Analyzed: 02/05/13

Acetone	0.132	0.10	mg/Kg wet	0.200		65.8	40-160			V-05, V-16, L-14 †
tert-Amyl Methyl Ether (TAME)	0.0186	0.0010	mg/Kg wet	0.0200		92.9	70-130			
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Bromobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
Bromodichloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Bromoform	0.0220	0.010	mg/Kg wet	0.0200		110	70-130			
Bromomethane	0.0113	0.010	mg/Kg wet	0.0200		56.6	40-160			L-14, V-05 †
2-Butanone (MEK)	0.165	0.040	mg/Kg wet	0.200		82.7	40-160			V-16 †
n-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
sec-Butylbenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130			
tert-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Carbon Disulfide	0.0174	0.0060	mg/Kg wet	0.0200		87.2	70-130			
Carbon Tetrachloride	0.0298	0.0020	mg/Kg wet	0.0200		149 *	70-130			L-02, V-20
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Chlorodibromomethane	0.0203	0.010	mg/Kg wet	0.0200		101	70-130			
Chloroethane	0.0178	0.010	mg/Kg wet	0.0200		89.0	70-130			
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.3	70-130			
Chloromethane	0.0193	0.010	mg/Kg wet	0.0200		96.6	40-160			†
2-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
4-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0188	0.0040	mg/Kg wet	0.0200		93.8	70-130			V-16
1,2-Dibromoethane (EDB)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,4-Dichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	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 B067261 - SW-846 5035										
LCS (B067261-BS1)										
Prepared & Analyzed: 02/05/13										
Dichlorodifluoromethane (Freon 12)	0.0183	0.010	mg/Kg wet	0.0200		91.6	40-160			†
1,1-Dichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,2-Dichloroethane	0.0167	0.0020	mg/Kg wet	0.0200		83.5	70-130			
1,1-Dichloroethylene	0.0164	0.0040	mg/Kg wet	0.0200		82.1	70-130			V-05
cis-1,2-Dichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
trans-1,2-Dichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
1,2-Dichloropropane	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130			
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130			
2,2-Dichloropropane	0.0249	0.0020	mg/Kg wet	0.0200		125	70-130			V-20
1,1-Dichloropropene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
cis-1,3-Dichloropropene	0.0185	0.010	mg/Kg wet	0.0200		92.3	70-130			
trans-1,3-Dichloropropene	0.0198	0.010	mg/Kg wet	0.0200		98.9	70-130			
Diethyl Ether	0.0174	0.010	mg/Kg wet	0.0200		86.8	70-130			
Diisopropyl Ether (DIPE)	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
1,4-Dioxane	0.204	0.10	mg/Kg wet	0.200		102	40-160			V-16 †
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Hexachlorobutadiene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			
2-Hexanone (MBK)	0.162	0.020	mg/Kg wet	0.200		81.0	40-160			†
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
p-Isopropyltoluene (p-Cymene)	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0183	0.0040	mg/Kg wet	0.0200		91.4	70-130			
Methylene Chloride	0.0135	0.010	mg/Kg wet	0.0200		67.6	* 70-130			L-07, V-05
4-Methyl-2-pentanone (MIBK)	0.172	0.020	mg/Kg wet	0.200		86.2	40-160			†
Naphthalene	0.0122	0.0040	mg/Kg wet	0.0200		61.1	* 70-130			L-04, V-05
n-Propylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Styrene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,1,1,2-Tetrachloroethane	0.0227	0.010	mg/Kg wet	0.0200		114	70-130			
1,1,1,2,2-Tetrachloroethane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130			
Tetrachloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0219	0.010	mg/Kg wet	0.0200		109	70-130			V-16
Toluene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
1,2,3-Trichlorobenzene	0.0158	0.0020	mg/Kg wet	0.0200		78.8	70-130			V-05
1,2,4-Trichlorobenzene	0.0166	0.0020	mg/Kg wet	0.0200		82.8	70-130			V-05
1,1,1-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Trichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0192	0.010	mg/Kg wet	0.0200		95.9	70-130			
1,2,3-Trichloropropane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2,4-Trimethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,3,5-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Vinyl Chloride	0.0160	0.010	mg/Kg wet	0.0200		80.1	70-130			V-05
m+p Xylene	0.0424	0.0040	mg/Kg wet	0.0400		106	70-130			
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0425		mg/Kg wet	0.0500		84.9	70-130			
Surrogate: Toluene-d8	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0485		mg/Kg wet	0.0500		96.9	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B067261 - SW-846 5035										
LCS Dup (B067261-BSD1)										
Prepared & Analyzed: 02/05/13										
Acetone	0.141	0.10	mg/Kg wet	0.200		70.7	40-160	7.15	20	V-05, V-16 †
tert-Amyl Methyl Ether (TAME)	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130	5.75	20	
Benzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	8.56	20	
Bromobenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	8.41	20	
Bromochloromethane	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130	9.91	20	
Bromodichloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	5.64	20	
Bromoform	0.0229	0.010	mg/Kg wet	0.0200		114	70-130	3.92	20	
Bromomethane	0.0134	0.010	mg/Kg wet	0.0200		67.2	40-160	17.1	20	L-14, V-05 †
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.6	40-160	4.61	20	V-16 †
n-Butylbenzene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	7.09	20	
sec-Butylbenzene	0.0252	0.0020	mg/Kg wet	0.0200		126	70-130	7.49	20	
tert-Butylbenzene	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	5.46	20	
tert-Butyl Ethyl Ether (TBEE)	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	4.99	20	
Carbon Disulfide	0.0182	0.0060	mg/Kg wet	0.0200		90.8	70-130	4.04	20	
Carbon Tetrachloride	0.0323	0.0020	mg/Kg wet	0.0200		161 *	70-130	7.79	20	L-02, V-20
Chlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	6.36	20	
Chlorodibromomethane	0.0213	0.010	mg/Kg wet	0.0200		106	70-130	4.91	20	
Chloroethane	0.0187	0.010	mg/Kg wet	0.0200		93.3	70-130	4.72	20	
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	7.88	20	
Chloromethane	0.0204	0.010	mg/Kg wet	0.0200		102	40-160	5.63	20	†
2-Chlorotoluene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	6.88	20	
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	7.79	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130	7.39	20	V-16
1,2-Dibromoethane (EDB)	0.0225	0.0010	mg/Kg wet	0.0200		112	70-130	5.29	20	
Dibromomethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.69	20	
1,2-Dichlorobenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	8.20	20	
1,3-Dichlorobenzene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	7.38	20	
1,4-Dichlorobenzene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	7.32	20	
Dichlorodifluoromethane (Freon 12)	0.0193	0.010	mg/Kg wet	0.0200		96.7	40-160	5.42	20	†
1,1-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	6.27	20	
1,2-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130	6.94	20	
1,1-Dichloroethylene	0.0171	0.0040	mg/Kg wet	0.0200		85.4	70-130	3.94	20	V-05
cis-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	7.51	20	
trans-1,2-Dichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	9.51	20	
1,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	7.16	20	
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130	5.51	20	
2,2-Dichloropropane	0.0266	0.0020	mg/Kg wet	0.0200		133 *	70-130	6.45	20	L-07, V-20
1,1-Dichloropropene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	6.87	20	
cis-1,3-Dichloropropene	0.0193	0.010	mg/Kg wet	0.0200		96.4	70-130	4.35	20	
trans-1,3-Dichloropropene	0.0204	0.010	mg/Kg wet	0.0200		102	70-130	3.09	20	
Diethyl Ether	0.0194	0.010	mg/Kg wet	0.0200		96.8	70-130	10.9	20	
Diisopropyl Ether (DIPE)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	6.43	20	
1,4-Dioxane	0.224	0.10	mg/Kg wet	0.200		112	40-160	9.32	20	V-16 †
Ethylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	6.13	20	
Hexachlorobutadiene	0.0257	0.0020	mg/Kg wet	0.0200		129	70-130	10.9	20	
2-Hexanone (MBK)	0.170	0.020	mg/Kg wet	0.200		85.0	40-160	4.70	20	†
Isopropylbenzene (Cumene)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	6.45	20	
p-Isopropyltoluene (p-Cymene)	0.0251	0.0020	mg/Kg wet	0.0200		126	70-130	6.16	20	
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		98.1	70-130	7.07	20	
Methylene Chloride	0.0147	0.010	mg/Kg wet	0.0200		73.6	70-130	8.50	20	V-05
4-Methyl-2-pentanone (MIBK)	0.182	0.020	mg/Kg wet	0.200		91.0	40-160	5.35	20	†
Naphthalene	0.0138	0.0040	mg/Kg wet	0.0200		68.9 *	70-130	12.0	20	L-04, V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B067261 - SW-846 5035

LCS Dup (B067261-BSD1)

Prepared & Analyzed: 02/05/13

n-Propylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	6.76	20	
Styrene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	8.08	20	
1,1,1,2-Tetrachloroethane	0.0240	0.010	mg/Kg wet	0.0200		120	70-130	5.39	20	
1,1,2,2-Tetrachloroethane	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	6.45	20	
Tetrachloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	6.24	20	
Tetrahydrofuran	0.0209	0.010	mg/Kg wet	0.0200		104	70-130	4.49	20	V-16
Toluene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130	7.82	20	
1,2,3-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130	11.6	20	V-05
1,2,4-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	12.2	20	V-05
1,1,1-Trichloroethane	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	7.54	20	
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	5.33	20	
Trichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	11.8	20	
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130	7.14	20	
1,2,3-Trichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.38	20	
1,2,4-Trimethylbenzene	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130	7.83	20	
1,3,5-Trimethylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	6.60	20	
Vinyl Chloride	0.0173	0.010	mg/Kg wet	0.0200		86.4	70-130	7.57	20	V-05
m+p Xylene	0.0452	0.0040	mg/Kg wet	0.0400		113	70-130	6.53	20	
o-Xylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	8.42	20	
Surrogate: 1,2-Dichloroethane-d4	0.0424		mg/Kg wet	0.0500		84.9	70-130			
Surrogate: Toluene-d8	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0487		mg/Kg wet	0.0500		97.5	70-130			

Batch B067336 - SW-846 5035

Blank (B067336-BLK1)

Prepared & Analyzed: 02/06/13

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	0.010	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	0.0020	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	0.010	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	0.0040	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

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 B067336 - SW-846 5035										
Blank (B067336-BLK1)										
Prepared & Analyzed: 02/06/13										
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	0.010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							V-05
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							L-04, V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.010	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	0.0429		mg/Kg wet	0.0500		85.8	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0449		mg/Kg wet	0.0500		89.9	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B067336 - SW-846 5035										
LCS (B067336-BS1)										
Prepared & Analyzed: 02/06/13										
Acetone	0.149	0.10	mg/Kg wet	0.200		74.4	40-160			V-16 †
tert-Amyl Methyl Ether (TAME)	0.0177	0.0010	mg/Kg wet	0.0200		88.6	70-130			
Benzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromochloromethane	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130			V-20
Bromodichloromethane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Bromoform	0.0217	0.010	mg/Kg wet	0.0200		108	70-130			
Bromomethane	0.0125	0.010	mg/Kg wet	0.0200		62.7	40-160			L-14 †
2-Butanone (MEK)	0.168	0.040	mg/Kg wet	0.200		84.2	40-160			V-16 †
n-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
sec-Butylbenzene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
tert-Butylbenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
Carbon Disulfide	0.0177	0.0060	mg/Kg wet	0.0200		88.6	70-130			
Carbon Tetrachloride	0.0299	0.0020	mg/Kg wet	0.0200		150 *	70-130			L-02, V-20
Chlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Chlorodibromomethane	0.0203	0.010	mg/Kg wet	0.0200		101	70-130			
Chloroethane	0.0184	0.010	mg/Kg wet	0.0200		92.1	70-130			
Chloroform	0.0200	0.0040	mg/Kg wet	0.0200		99.9	70-130			
Chloromethane	0.0197	0.010	mg/Kg wet	0.0200		98.3	40-160			†
2-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
4-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130			V-16
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Dibromomethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,2-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,4-Dichlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Dichlorodifluoromethane (Freon 12)	0.0170	0.010	mg/Kg wet	0.0200		85.1	40-160			†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,2-Dichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
1,1-Dichloroethylene	0.0173	0.0040	mg/Kg wet	0.0200		86.4	70-130			
cis-1,2-Dichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
trans-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2-Dichloropropane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130			
2,2-Dichloropropane	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130			V-20
1,1-Dichloropropene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
cis-1,3-Dichloropropene	0.0180	0.010	mg/Kg wet	0.0200		89.8	70-130			
trans-1,3-Dichloropropene	0.0188	0.010	mg/Kg wet	0.0200		94.1	70-130			
Diethyl Ether	0.0189	0.010	mg/Kg wet	0.0200		94.6	70-130			
Diisopropyl Ether (DIPE)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
1,4-Dioxane	0.234	0.10	mg/Kg wet	0.200		117	40-160			V-16 †
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Hexachlorobutadiene	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
2-Hexanone (MBK)	0.173	0.020	mg/Kg wet	0.200		86.6	40-160			†
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0189	0.0040	mg/Kg wet	0.0200		94.3	70-130			
Methylene Chloride	0.0139	0.010	mg/Kg wet	0.0200		69.5 *	70-130			L-07, V-05
4-Methyl-2-pentanone (MIBK)	0.181	0.020	mg/Kg wet	0.200		90.4	40-160			†
Naphthalene	0.0136	0.0040	mg/Kg wet	0.0200		67.9 *	70-130			L-04, V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B067336 - SW-846 5035

LCS (B067336-BS1)

Prepared & Analyzed: 02/06/13

n-Propylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0224	0.010	mg/Kg wet	0.0200		112	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0221	0.010	mg/Kg wet	0.0200		110	70-130			V-16
Toluene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2,3-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
1,2,4-Trichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
1,1,1-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,2-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Trichlorofluoromethane (Freon 11)	0.0201	0.010	mg/Kg wet	0.0200		101	70-130			
1,2,3-Trichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2,4-Trimethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,3,5-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Vinyl Chloride	0.0168	0.010	mg/Kg wet	0.0200		83.9	70-130			
m+p Xylene	0.0426	0.0040	mg/Kg wet	0.0400		107	70-130			
o-Xylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0436		mg/Kg wet	0.0500		87.2	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			

LCS Dup (B067336-BS1)

Prepared & Analyzed: 02/06/13

Acetone	0.147	0.10	mg/Kg wet	0.200		73.3	40-160	1.46	20	V-16	†
tert-Amyl Methyl Ether (TAME)	0.0170	0.0010	mg/Kg wet	0.0200		84.8	70-130	4.38	20		
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.699	20		
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.23	20		
Bromochloromethane	0.0243	0.0020	mg/Kg wet	0.0200		122	70-130	0.577	20	V-20	
Bromodichloromethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	2.54	20		
Bromoform	0.0214	0.010	mg/Kg wet	0.0200		107	70-130	1.49	20		
Bromomethane	0.0147	0.010	mg/Kg wet	0.0200		73.6	40-160	16.0	20		†
2-Butanone (MEK)	0.177	0.040	mg/Kg wet	0.200		88.7	40-160	5.16	20	V-16	†
n-Butylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	1.89	20		
sec-Butylbenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	0.596	20		
tert-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	2.13	20		
tert-Butyl Ethyl Ether (TBEE)	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130	0.664	20		
Carbon Disulfide	0.0173	0.0060	mg/Kg wet	0.0200		86.6	70-130	2.28	20		
Carbon Tetrachloride	0.0297	0.0020	mg/Kg wet	0.0200		149 *	70-130	0.671	20	L-02, V-20	
Chlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	3.26	20		
Chlorodibromomethane	0.0199	0.010	mg/Kg wet	0.0200		99.4	70-130	1.89	20		
Chloroethane	0.0188	0.010	mg/Kg wet	0.0200		94.1	70-130	2.15	20		
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.5	70-130	3.46	20		
Chloromethane	0.0194	0.010	mg/Kg wet	0.0200		96.9	40-160	1.43	20		†
2-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.64	20		
4-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	0.980	20		
1,2-Dibromo-3-chloropropane (DBCP)	0.0190	0.0040	mg/Kg wet	0.0200		94.9	70-130	7.31	20	V-16	
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	1.31	20		
Dibromomethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.00	20		
1,2-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	0.928	20		
1,3-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	1.36	20		
1,4-Dichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	1.87	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 B067336 - SW-846 5035										
LCS Dup (B067336-BSD1)										
Prepared & Analyzed: 02/06/13										
Dichlorodifluoromethane (Freon 12)	0.0169	0.010	mg/Kg wet	0.0200		84.7	40-160	0.471	20	†
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	0.320	20	
1,2-Dichloroethane	0.0172	0.0020	mg/Kg wet	0.0200		85.9	70-130	2.98	20	
1,1-Dichloroethylene	0.0169	0.0040	mg/Kg wet	0.0200		84.5	70-130	2.22	20	
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	3.42	20	
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	1.61	20	
1,2-Dichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	1.18	20	
1,3-Dichloropropane	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130	2.47	20	
2,2-Dichloropropane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	4.70	20	V-20
1,1-Dichloropropene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	3.02	20	
cis-1,3-Dichloropropene	0.0175	0.010	mg/Kg wet	0.0200		87.7	70-130	2.37	20	
trans-1,3-Dichloropropene	0.0187	0.010	mg/Kg wet	0.0200		93.4	70-130	0.747	20	
Diethyl Ether	0.0186	0.010	mg/Kg wet	0.0200		92.8	70-130	1.92	20	
Diisopropyl Ether (DIPE)	0.0199	0.0010	mg/Kg wet	0.0200		99.7	70-130	2.28	20	
1,4-Dioxane	0.218	0.10	mg/Kg wet	0.200		109	40-160	7.21	20	V-16 †
Ethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.64	20	
Hexachlorobutadiene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	3.89	20	
2-Hexanone (MBK)	0.166	0.020	mg/Kg wet	0.200		82.8	40-160	4.45	20	†
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	0.831	20	
p-Isopropyltoluene (p-Cymene)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	1.96	20	
Methyl tert-Butyl Ether (MTBE)	0.0185	0.0040	mg/Kg wet	0.0200		92.4	70-130	2.04	20	
Methylene Chloride	0.0141	0.010	mg/Kg wet	0.0200		70.5	70-130	1.43	20	V-05
4-Methyl-2-pentanone (MIBK)	0.176	0.020	mg/Kg wet	0.200		88.2	40-160	2.47	20	†
Naphthalene	0.0125	0.0040	mg/Kg wet	0.0200		62.5 *	70-130	8.28	20	L-04, V-05
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	1.48	20	
Styrene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.394	20	
1,1,1,2-Tetrachloroethane	0.0222	0.010	mg/Kg wet	0.0200		111	70-130	0.628	20	
1,1,1,2,2-Tetrachloroethane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	1.24	20	
Tetrachloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	0.851	20	
Tetrahydrofuran	0.0235	0.010	mg/Kg wet	0.0200		118	70-130	6.32	20	V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	0.320	20	
1,2,3-Trichlorobenzene	0.0160	0.0020	mg/Kg wet	0.0200		80.0	70-130	10.2	20	
1,2,4-Trichlorobenzene	0.0166	0.0020	mg/Kg wet	0.0200		82.9	70-130	6.20	20	
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	4.06	20	
1,1,2-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130	1.52	20	
Trichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	2.43	20	
Trichlorofluoromethane (Freon 11)	0.0194	0.010	mg/Kg wet	0.0200		96.9	70-130	3.85	20	
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.566	20	
1,2,4-Trimethylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	0.0899	20	
1,3,5-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.68	20	
Vinyl Chloride	0.0166	0.010	mg/Kg wet	0.0200		83.2	70-130	0.838	20	
m+p Xylene	0.0424	0.0040	mg/Kg wet	0.0400		106	70-130	0.612	20	
o-Xylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	0.0981	20	
Surrogate: 1,2-Dichloroethane-d4	0.0429		mg/Kg wet	0.0500		85.8	70-130			
Surrogate: Toluene-d8	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0488		mg/Kg wet	0.0500		97.5	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 B067324 - SW-846 3546

Blank (B067324-BLK1)

Prepared & Analyzed: 02/06/13

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							

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 B067324 - SW-846 3546

Blank (B067324-BLK1)

Prepared & Analyzed: 02/06/13

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	5.37		mg/Kg wet	6.67		80.5	30-130			
Surrogate: Phenol-d6	5.40		mg/Kg wet	6.67		80.9	30-130			
Surrogate: Nitrobenzene-d5	2.38		mg/Kg wet	3.33		71.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.33		75.2	30-130			
Surrogate: 2,4,6-Tribromophenol	4.06		mg/Kg wet	6.67		60.8	30-130			
Surrogate: Terphenyl-d14	3.34		mg/Kg wet	3.33		100	30-130			

LCS (B067324-BS1)

Prepared: 02/06/13 Analyzed: 02/07/13

Acenaphthene	1.62	0.17	mg/Kg wet	1.67		97.2	40-140			
Acenaphthylene	1.63	0.17	mg/Kg wet	1.67		97.7	40-140			
Acetophenone	1.53	0.34	mg/Kg wet	1.67		91.5	40-140			
Aniline	1.11	0.34	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.65	0.17	mg/Kg wet	1.67		98.8	40-140			
Benzo(a)anthracene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
Benzo(a)pyrene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Benzo(b)fluoranthene	1.75	0.17	mg/Kg wet	1.67		105	40-140			
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Benzo(k)fluoranthene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
Bis(2-chloroethoxy)methane	1.63	0.34	mg/Kg wet	1.67		98.0	40-140			
Bis(2-chloroethyl)ether	1.48	0.34	mg/Kg wet	1.67		88.5	40-140			
Bis(2-chloroisopropyl)ether	1.56	0.34	mg/Kg wet	1.67		93.5	40-140			
Bis(2-Ethylhexyl)phthalate	1.70	0.34	mg/Kg wet	1.67		102	40-140			
4-Bromophenylphenylether	1.63	0.34	mg/Kg wet	1.67		97.8	40-140			
Butylbenzylphthalate	1.67	0.66	mg/Kg wet	1.67		100	40-140			
4-Chloroaniline	1.44	0.66	mg/Kg wet	1.67		86.6	15-140			†
2-Chloronaphthalene	1.45	0.34	mg/Kg wet	1.67		86.7	40-140			
2-Chlorophenol	1.50	0.34	mg/Kg wet	1.67		90.1	30-130			
Chrysene	1.61	0.17	mg/Kg wet	1.67		96.3	40-140			
Dibenz(a,h)anthracene	1.75	0.17	mg/Kg wet	1.67		105	40-140			
Dibenzofuran	1.66	0.34	mg/Kg wet	1.67		99.3	40-140			
Di-n-butylphthalate	1.77	0.34	mg/Kg wet	1.67		106	40-140			
1,2-Dichlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.0	40-140			
1,3-Dichlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.4	40-140			
1,4-Dichlorobenzene	1.38	0.34	mg/Kg wet	1.67		82.8	40-140			
3,3-Dichlorobenzidine	1.67	0.17	mg/Kg wet	1.67		100	40-140			
2,4-Dichlorophenol	1.70	0.34	mg/Kg wet	1.67		102	30-130			
Diethylphthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140			
2,4-Dimethylphenol	1.67	0.34	mg/Kg wet	1.67		100	30-130			
Dimethylphthalate	1.69	0.66	mg/Kg wet	1.67		102	40-140			
2,4-Dinitrophenol	1.32	0.66	mg/Kg wet	1.67		79.0	15-140			†
2,4-Dinitrotoluene	1.82	0.34	mg/Kg wet	1.67		109	40-140			
2,6-Dinitrotoluene	1.78	0.34	mg/Kg wet	1.67		107	40-140			
Di-n-octylphthalate	1.91	0.66	mg/Kg wet	1.67		115	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.54	0.34	mg/Kg wet	1.67		92.4	40-140			
Fluoranthene	1.71	0.17	mg/Kg wet	1.67		103	40-140			
Fluorene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
Hexachlorobenzene	1.70	0.34	mg/Kg wet	1.67		102	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 B067324 - SW-846 3546

LCS (B067324-BS1)

Prepared: 02/06/13 Analyzed: 02/07/13

Hexachlorobutadiene	1.66	0.34	mg/Kg wet	1.67		99.9	40-140			
Hexachloroethane	1.41	0.34	mg/Kg wet	1.67		84.9	40-140			
Indeno(1,2,3-cd)pyrene	1.79	0.17	mg/Kg wet	1.67		107	40-140			
Isophorone	1.58	0.34	mg/Kg wet	1.67		95.0	40-140			
2-Methylnaphthalene	1.52	0.17	mg/Kg wet	1.67		91.4	40-140			
2-Methylphenol	1.45	0.34	mg/Kg wet	1.67		87.2	30-130			
3/4-Methylphenol	3.00	0.34	mg/Kg wet	1.67		180 *	30-130			L-02
Naphthalene	1.52	0.17	mg/Kg wet	1.67		91.2	40-140			
Nitrobenzene	1.47	0.34	mg/Kg wet	1.67		88.5	40-140			
2-Nitrophenol	1.56	0.34	mg/Kg wet	1.67		93.6	30-130			
4-Nitrophenol	1.91	0.66	mg/Kg wet	1.67		115	15-140			†
Pentachlorophenol	1.51	0.34	mg/Kg wet	1.67		90.7	30-130			
Phenanthrene	1.64	0.17	mg/Kg wet	1.67		98.4	40-140			
Phenol	1.47	0.34	mg/Kg wet	1.67		88.4	15-140			†
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140			
1,2,4-Trichlorobenzene	1.59	0.34	mg/Kg wet	1.67		95.4	40-140			
2,4,5-Trichlorophenol	1.63	0.34	mg/Kg wet	1.67		97.5	30-130			
2,4,6-Trichlorophenol	1.76	0.34	mg/Kg wet	1.67		106	30-130			
Surrogate: 2-Fluorophenol	5.80		mg/Kg wet	6.67		87.1	30-130			
Surrogate: Phenol-d6	5.85		mg/Kg wet	6.67		87.8	30-130			
Surrogate: Nitrobenzene-d5	3.20		mg/Kg wet	3.33		96.1	30-130			
Surrogate: 2-Fluorobiphenyl	3.34		mg/Kg wet	3.33		100	30-130			
Surrogate: 2,4,6-Tribromophenol	7.91		mg/Kg wet	6.67		119	30-130			
Surrogate: Terphenyl-d14	3.28		mg/Kg wet	3.33		98.5	30-130			

LCS Dup (B067324-BS1)

Prepared: 02/06/13 Analyzed: 02/07/13

Acenaphthene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140	2.35	30	
Acenaphthylene	1.59	0.17	mg/Kg wet	1.67		95.4	40-140	2.34	30	
Acetophenone	1.55	0.34	mg/Kg wet	1.67		93.3	40-140	1.88	30	
Aniline	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	3.72	30	
Anthracene	1.68	0.17	mg/Kg wet	1.67		101	40-140	1.77	30	
Benzo(a)anthracene	1.67	0.17	mg/Kg wet	1.67		100	40-140	0.0200	30	
Benzo(a)pyrene	1.67	0.17	mg/Kg wet	1.67		100	40-140	2.71	30	
Benzo(b)fluoranthene	1.69	0.17	mg/Kg wet	1.67		101	40-140	3.58	30	
Benzo(g,h,i)perylene	1.70	0.17	mg/Kg wet	1.67		102	40-140	0.976	30	
Benzo(k)fluoranthene	1.66	0.17	mg/Kg wet	1.67		99.8	40-140	0.579	30	
Bis(2-chloroethoxy)methane	1.61	0.34	mg/Kg wet	1.67		96.7	40-140	1.25	30	
Bis(2-chloroethyl)ether	1.50	0.34	mg/Kg wet	1.67		89.7	40-140	1.35	30	
Bis(2-chloroisopropyl)ether	1.61	0.34	mg/Kg wet	1.67		96.8	40-140	3.45	30	
Bis(2-Ethylhexyl)phthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140	1.74	30	
4-Bromophenylphenylether	1.76	0.34	mg/Kg wet	1.67		106	40-140	7.82	30	
Butylbenzylphthalate	1.69	0.66	mg/Kg wet	1.67		102	40-140	1.21	30	
4-Chloroaniline	1.37	0.66	mg/Kg wet	1.67		82.3	15-140	5.14	30	†
2-Chloronaphthalene	1.48	0.34	mg/Kg wet	1.67		88.8	40-140	2.37	30	
2-Chlorophenol	1.50	0.34	mg/Kg wet	1.67		90.0	30-130	0.156	30	
Chrysene	1.57	0.17	mg/Kg wet	1.67		94.3	40-140	2.16	30	
Dibenz(a,h)anthracene	1.73	0.17	mg/Kg wet	1.67		104	40-140	1.15	30	
Dibenzofuran	1.57	0.34	mg/Kg wet	1.67		94.2	40-140	5.27	30	
Di-n-butylphthalate	1.76	0.34	mg/Kg wet	1.67		106	40-140	0.0944	30	
1,2-Dichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.7	40-140	2.03	30	
1,3-Dichlorobenzene	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	0.592	30	
1,4-Dichlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	0.849	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 B067324 - SW-846 3546										
LCS Dup (B067324-BSD1)										
					Prepared: 02/06/13 Analyzed: 02/07/13					
3,3-Dichlorobenzidine	1.61	0.17	mg/Kg wet	1.67		96.6	40-140	3.84	30	
2,4-Dichlorophenol	1.67	0.34	mg/Kg wet	1.67		99.9	30-130	2.08	30	
Diethylphthalate	1.48	0.34	mg/Kg wet	1.67		89.1	40-140	11.9	30	
2,4-Dimethylphenol	1.68	0.34	mg/Kg wet	1.67		101	30-130	0.677	30	
Dimethylphthalate	1.60	0.66	mg/Kg wet	1.67		96.1	40-140	5.56	30	
2,4-Dinitrophenol	1.11	0.66	mg/Kg wet	1.67		66.8	15-140	16.8	30	†
2,4-Dinitrotoluene	1.53	0.34	mg/Kg wet	1.67		91.7	40-140	17.3	30	
2,6-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		98.8	40-140	8.10	30	
Di-n-octylphthalate	1.94	0.66	mg/Kg wet	1.67		117	40-140	1.75	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.70	0.34	mg/Kg wet	1.67		102	40-140	9.77	30	
Fluoranthene	1.69	0.17	mg/Kg wet	1.67		101	40-140	1.45	30	
Fluorene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140	10.5	30	
Hexachlorobenzene	1.75	0.34	mg/Kg wet	1.67		105	40-140	2.86	30	
Hexachlorobutadiene	1.70	0.34	mg/Kg wet	1.67		102	40-140	2.14	30	
Hexachloroethane	1.45	0.34	mg/Kg wet	1.67		86.8	40-140	2.26	30	
Indeno(1,2,3-cd)pyrene	1.76	0.17	mg/Kg wet	1.67		106	40-140	1.82	30	
Isophorone	1.59	0.34	mg/Kg wet	1.67		95.4	40-140	0.420	30	
2-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140	4.82	30	
2-Methylphenol	1.54	0.34	mg/Kg wet	1.67		92.3	30-130	5.64	30	
3/4-Methylphenol	3.06	0.34	mg/Kg wet	1.67		184 *	30-130	2.15	30	L-02
Naphthalene	1.51	0.17	mg/Kg wet	1.67		90.9	40-140	0.373	30	
Nitrobenzene	1.50	0.34	mg/Kg wet	1.67		90.1	40-140	1.84	30	
2-Nitrophenol	1.56	0.34	mg/Kg wet	1.67		93.3	30-130	0.278	30	
4-Nitrophenol	1.58	0.66	mg/Kg wet	1.67		94.7	15-140	19.3	30	†
Pentachlorophenol	1.54	0.34	mg/Kg wet	1.67		92.1	30-130	1.58	30	
Phenanthrene	1.65	0.17	mg/Kg wet	1.67		98.8	40-140	0.446	30	
Phenol	1.47	0.34	mg/Kg wet	1.67		88.2	15-140	0.181	30	†
Pyrene	1.74	0.17	mg/Kg wet	1.67		104	40-140	11.0	30	
1,2,4-Trichlorobenzene	1.59	0.34	mg/Kg wet	1.67		95.7	40-140	0.230	30	
2,4,5-Trichlorophenol	1.61	0.34	mg/Kg wet	1.67		96.7	30-130	0.865	30	
2,4,6-Trichlorophenol	1.76	0.34	mg/Kg wet	1.67		106	30-130	0.360	30	
Surrogate: 2-Fluorophenol	5.91		mg/Kg wet	6.67		88.6	30-130			
Surrogate: Phenol-d6	5.92		mg/Kg wet	6.67		88.8	30-130			
Surrogate: Nitrobenzene-d5	3.23		mg/Kg wet	3.33		97.0	30-130			
Surrogate: 2-Fluorobiphenyl	3.54		mg/Kg wet	3.33		106	30-130			
Surrogate: 2,4,6-Tribromophenol	6.70		mg/Kg wet	6.67		100	30-130			
Surrogate: Terphenyl-d14	3.60		mg/Kg wet	3.33		108	30-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B067497 - SW-846 3546

Blank (B067497-BLK1)

Prepared: 02/08/13 Analyzed: 02/11/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.209		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.204		mg/Kg wet	0.200		102	30-150			

LCS (B067497-BS1)

Prepared: 02/08/13 Analyzed: 02/11/13

Aroclor-1016	0.24	0.10	mg/Kg wet	0.200		119	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg wet	0.200		118	40-140			
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		115	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.206		mg/Kg wet	0.200		103	30-150			

LCS Dup (B067497-BSD1)

Prepared: 02/08/13 Analyzed: 02/11/13

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		94.7	40-140	22.7	30	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg wet	0.200		97.6	40-140	19.0	30	
Aroclor-1260	0.19	0.10	mg/Kg wet	0.200		93.7	40-140	20.4	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		98.3	40-140	19.3	30	
Surrogate: Decachlorobiphenyl	0.168		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		82.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.200		81.7	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
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Batch B067322 - SW-846 3546

Blank (B067322-BLK1)

Prepared & Analyzed: 02/06/13

Diesel Range Organics	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.47		mg/Kg wet	3.33		74.2	40-140			

LCS (B067322-BS1)

Prepared & Analyzed: 02/06/13

Diesel Range Organics	23.0	8.3	mg/Kg wet	33.3		69.1	40-140			
Surrogate: o-Terphenyl	2.55		mg/Kg wet	3.33		76.6	40-140			

LCS Dup (B067322-BSD1)

Prepared & Analyzed: 02/06/13

Diesel Range Organics	26.7	8.3	mg/Kg wet	33.3		80.0	40-140	14.6		
Surrogate: o-Terphenyl	2.87		mg/Kg wet	3.33		86.1	40-140			



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B067103 - SW-846 3050B

Blank (B067103-BLK1)

Prepared: 02/02/13 Analyzed: 02/04/13

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 (B067103-BS1)

Prepared: 02/02/13 Analyzed: 02/04/13

Arsenic	94.2	5.0	mg/Kg wet	94.5		99.7	82.2-117.5			
Barium	173	5.0	mg/Kg wet	166		104	83.1-116.3			
Cadmium	61.4	0.50	mg/Kg wet	59.9		102	84-115.9			
Chromium	70.7	0.99	mg/Kg wet	69.3		102	81.4-118.6			
Lead	87.2	1.5	mg/Kg wet	91.7		95.1	82.4-117.8			
Selenium	155	9.9	mg/Kg wet	159		97.2	79.2-120.8			
Silver	32.2	0.99	mg/Kg wet	33.9		94.8	66.4-133.9			

LCS Dup (B067103-BSD1)

Prepared: 02/02/13 Analyzed: 02/04/13

Arsenic	90.0	5.0	mg/Kg wet	94.5		95.3	82.2-117.5	4.55	30	
Barium	167	5.0	mg/Kg wet	166		101	83.1-116.3	3.46	30	
Cadmium	59.0	0.50	mg/Kg wet	59.9		98.4	84-115.9	4.01	30	
Chromium	69.2	0.99	mg/Kg wet	69.3		99.9	81.4-118.6	2.10	30	
Lead	82.6	1.5	mg/Kg wet	91.7		90.0	82.4-117.8	5.46	30	
Selenium	148	9.9	mg/Kg wet	159		93.2	79.2-120.8	4.20	30	
Silver	31.3	0.99	mg/Kg wet	33.9		92.4	66.4-133.9	2.58	30	

MRL Check (B067103-MRL1)

Prepared: 02/02/13 Analyzed: 02/04/13

Lead	0.745	0.73	mg/Kg wet	0.728		102	80-120			
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Batch B067127 - SW-846 7471

Blank (B067127-BLK1)

Prepared: 02/02/13 Analyzed: 02/04/13

Mercury	ND	0.025	mg/Kg wet							
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LCS (B067127-BS1)

Prepared: 02/02/13 Analyzed: 02/04/13

Mercury	4.00	0.33	mg/Kg wet	3.73		107	71.7-128.3			
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LCS Dup (B067127-BSD1)

Prepared: 02/02/13 Analyzed: 02/04/13

Mercury	3.17	0.33	mg/Kg wet	3.73		84.9	71.7-128.3	23.2	30	
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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B067077 - SM18-20 2510B										
Blank (B067077-BLK1) Prepared & Analyzed: 02/01/13										
Specific conductance	ND	2.0	µmhos/cm							
LCS (B067077-BS1) Prepared & Analyzed: 02/01/13										
Specific conductance	130	2.0	µmhos/cm	147		91.6	77.3-114			
Duplicate (B067077-DUP1) Source: 13A0847-02 Prepared & Analyzed: 02/01/13										
Specific conductance	11	2.0	µmhos/cm		11			0.0930	18.9	
Batch B067192 - SW-846 9030A										
Blank (B067192-BLK1) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Sulfide	ND	2.0	mg/Kg							
Blank (B067192-BLK2) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B067192-BS1) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Sulfide	16	2.0	mg/Kg	14.9		110	32.9-140			
LCS (B067192-BS2) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Sulfide	18	2.0	mg/Kg	14.9		118	32.9-140			
Batch B067193 - SW-846 9014										
Blank (B067193-BLK1) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Cyanide	ND	0.40	mg/Kg							
Blank (B067193-BLK2) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B067193-BS1) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Cyanide	9.3	0.40	mg/Kg	10.0		93.4	80.1-115			
LCS (B067193-BS2) Prepared: 02/04/13 Analyzed: 02/05/13										
Reactive Cyanide	9.3	0.40	mg/Kg	10.0		93.4	80.1-115			

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.
DL-03	Elevated reporting limit due to matrix.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-32	A five times dilution was performed as part of the standard analytical procedure.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME,VA
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8015C in Soil	
Diesel Range Organics	NY,VA,NH
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
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

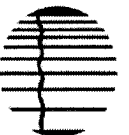
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



CON-TEST
ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Kleinfelder

Address: 215 First St., Suite 320
Cambridge MA 02142

Attention: Martha Zirbel

Project Location: Cambridge - Concord

Sampled By: Nathan Hand

Project Proposal Provided? (for billing purposes)
 Yes No

Telephone: 617-498-4678

Project #

Client PO#

DATA DELIVERY (check all that apply)

FAX EMAIL WEBSITE

Fax #

Email: mzirbel@kleinfelder.com

Format: PDF EXCEL GIS

OTHER

Collection

Beginning Date/Time

Ending Date/Time

"Enhanced Data Package"

Con-Test Lab ID

Client Sample ID / Description

Composite

Grab

*Matrix Code

Lane Code

VOCs 8260

SVOCs 8270

TPH 8015

PCBs 8082

RCRA 8 Metals

Conductivity

Received by: (signature)

Date/Time: 1/28/13

Turnaround 7-Day

10-Day

Other

RUSH

Detection Limit Requirements

Massachusetts: RCS-1

Connecticut:

Other:

Is your project MCP or RCP?

MCP Form Required

Received by: (signature)

Date/Time: 1/28/13

Turnaround 7-Day

10-Day

Other

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Detection Limit Requirements

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Date/Time: 1/28/13

Turnaround 7-Day

10-Day

Other

RUSH

Detection Limit Requirements

Massachusetts: RCS-1

Connecticut:

Other:

Is your project MCP or RCP?

MCP Form Required

Received by: (signature)

Date/Time: 1/28/13

Turnaround 7-Day

10-Day

Other

RUSH

Detection Limit Requirements

Massachusetts: RCS-1

Connecticut:

Other:

Is your project MCP or RCP?

MCP Form Required

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

NEIAC & AIHA Certified

WBE/DBE Certified

MA State DW Form Required

PWSID #

MA State DW Form Required

PWSID #

MA State DW Form Required

PWSID #

MA State DW Form Required

PWSID #

Received by: (signature)

Date/Time: 1/28/13

Turnaround 7-Day

10-Day

Other

RUSH

Detection Limit Requirements

Massachusetts: RCS-1

Connecticut:

Other:

Is your project MCP or RCP?

MCP Form Required

Received by: (signature)

Date/Time: 1/28/13

Turnaround 7-Day

10-Day

Other

RUSH

Detection Limit Requirements

Massachusetts: RCS-1

Connecticut:

Other:

Is your project MCP or RCP?

MCP Form Required

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



Sample Receipt Checklist

CLIENT NAME: Klein/Felder RECEIVED BY: WK DATE: 1-31-13

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

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.2

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>4</u>
500 mL Amber		4 oz amber/clear jar	<u>2</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>6</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
 Doc# 277 # Bisulfate 4 # DI Water _____
 Rev. 3 May 2012 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

March 26, 2014

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge-Concord
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13A0823

Enclosed are results of analyses for samples received by the laboratory on January 31, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 3/26/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0823

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

PROJECT LOCATION: Cambridge-Concord

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B335	13A0823-01	Ground Water		SW-846 6010C SW-846 7470A SW-846 8260C	
B333	13A0823-02	Ground Water		SW-846 6010C SW-846 7470A SW-846 8260C	
B307	13A0823-03	Ground Water		SW-846 6010C SW-846 7470A SW-846 8260C	
B350	13A0823-04	Ground Water		SW-846 6010C SW-846 7470A SW-846 8260C	

CASE NARRATIVE SUMMARY

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

REVISED REPORT 03/26/14 - Sample ID 13A0823-02 updated from "B349" to "B333" per client request.

REVISED REPORT 02/11/13 - Sample ID 13A0823-01 updated per client request.

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

SW-846 6010C

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Silver

B067110-BS1

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Silver

13A0823-01[B335], B067110-MS1

SW-846 8260C

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:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Bromomethane, Vinyl Chloride

B067161-BLK1, B067161-BS1, B067161-BSD1, 13A0823-01[B335], 13A0823-02[B333], 13A0823-03[B307], 13A0823-04[B350], B067033-BLK1, B067033-BS1, B067033-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:

1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Carbon Disulfide, Hexachlorobutadiene, Naphthalene

B067033-BS1, B067033-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:

1,2,3-Trichlorobenzene

B067033-BS1

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:

Chloromethane, Dichlorodifluoromethane (Freon 12)

B067033-BS1, B067033-BSD1, B067161-BS1, B067161-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:

1,2,3-Trichlorobenzene, Acetone, Bromomethane, Methylene Chloride, Naphthalene, Tetrahydrofuran

13A0823-01[B335], 13A0823-02[B333], 13A0823-03[B307], 13A0823-04[B350], B067033-BLK1, B067033-BS1, B067033-BSD1

Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

13A0823-01[B335]

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Carbon Disulfide, Methylene Chloride, Naphthalene
13A0823-02[B333], 13A0823-03[B307], 13A0823-04[B350]

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Bromomethane, Chloromethane, Naphthalene, Styrene, trans-1,3-Dichloropropene, Vinyl Chloride
B067161-BLK1, B067161-BS1, B067161-BSD1, 13A0823-01[B335], 13A0823-02[B333], 13A0823-03[B307], 13A0823-04[B350], B067033-BLK1, B067033-BS1, B067033-BSD1

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

Analyte & Samples(s) Qualified:

Naphthalene
B067033-BS1, B067033-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
13A0823-01[B335], 13A0823-02[B333], 13A0823-03[B307], 13A0823-04[B350], B067033-BLK1, B067033-BS1, B067033-BSD1, B067161-BLK1, B067161-BS1, B067161-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:

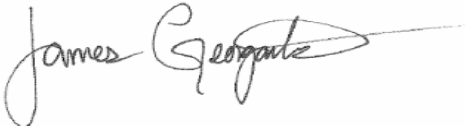
1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, Bromomethane, Dichlorodifluoromethane (Freon 12), Hexachlorobutadiene, Trichlorofluoromethane (Freon 11)
B067033-BS1, B067033-BSD1, B067161-BS1, B067161-BSD1

SW-846 8260C

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

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

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



James M. Georgantas
Project Chemist

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B335

Sampled: 1/29/2013 10:00

Sample ID: 13A0823-01

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	50	R-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Benzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Bromobenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Bromodichloromethane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Bromoform	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Bromomethane	ND	100	µg/L	50	L-04, R-05, V-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
2-Butanone (MEK)	ND	500	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Carbon Disulfide	ND	250	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Carbon Tetrachloride	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Chlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Chloroethane	300	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Chloroform	ND	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Chloromethane	ND	100	µg/L	50	V-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
2-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
4-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Dibromomethane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,1-Dichloroethane	2100	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,1-Dichloroethylene	550	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
cis-1,2-Dichloroethylene	36000	500	µg/L	500		SW-846 8260C	2/1/13	2/4/13 20:53	LBD
trans-1,2-Dichloroethylene	120	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,1-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
cis-1,3-Dichloropropene	ND	20	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
trans-1,3-Dichloropropene	ND	20	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Diethyl Ether	ND	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Diisopropyl Ether (DIPE)	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,4-Dioxane	ND	2500	µg/L	50	V-16	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Ethylbenzene	110	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B335

Sampled: 1/29/2013 10:00

Sample ID: 13A0823-01

Sample Matrix: Ground Water

Sample Flags: RL-05

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Methylene Chloride	ND	250	µg/L	50	R-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Naphthalene	ND	100	µg/L	50	R-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Styrene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Tetrachloroethylene	120	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Tetrahydrofuran	ND	100	µg/L	50	R-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Toluene	680	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2,3-Trichlorobenzene	ND	100	µg/L	50	R-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,1,1-Trichloroethane	2700	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Trichloroethylene	420	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Trichlorofluoromethane (Freon 11)	670	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
Vinyl Chloride	3600	100	µg/L	50	L-04, V-05	SW-846 8260C	2/1/13	2/1/13 22:56	MFF
m+p Xylene	320	100	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF
o-Xylene	84	50	µg/L	50		SW-846 8260C	2/1/13	2/1/13 22:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	115	70-130	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	98.3	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	93.4	70-130	
4-Bromofluorobenzene	103	70-130	

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Sampled: 1/29/2013 10:00

Field Sample #: B335

Sample ID: 13A0823-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/5/13 9:31	OP
Barium	0.10	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 16:25	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/2/13	2/4/13 16:25	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 16:25	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 16:25	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/1/13	2/1/13 11:09	SAJ
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 16:25	OP
Silver	ND	0.0050	mg/L	1	MS-07	SW-846 6010C	2/2/13	2/4/13 16:25	OP

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B333

Sampled: 1/29/2013 11:45

Sample ID: 13A0823-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Bromoform	ND	1.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Bromomethane	ND	2.0	µg/L	1	L-04, R-05, V-05	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,1-Dichloroethane	10	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,1-Dichloroethylene	2.9	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
cis-1,2-Dichloroethylene	92	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Ethylbenzene	1.2	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B333

Sampled: 1/29/2013 11:45

Sample ID: 13A0823-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Methylene Chloride	ND	5.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Naphthalene	ND	2.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Tetrachloroethylene	1.8	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Tetrahydrofuran	ND	2.0	µg/L	1	R-05	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Toluene	6.1	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,1,1-Trichloroethane	16	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Trichloroethylene	7.1	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Trichlorofluoromethane (Freon 11)	3.6	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
Vinyl Chloride	7.7	2.0	µg/L	1	L-04, V-05	SW-846 8260C	2/1/13	2/1/13 19:20	MFF
m+p Xylene	3.8	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	2/1/13 19:20
Toluene-d8	97.4	70-130	2/1/13 19:20
4-Bromofluorobenzene	97.0	70-130	2/1/13 19:20

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Sampled: 1/29/2013 11:45

Field Sample #: B333

Sample ID: 13A0823-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/5/13 9:54	OP
Barium	0.32	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:15	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:15	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:15	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:15	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/1/13	2/1/13 11:11	SAJ
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:15	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:15	OP

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B307

Sampled: 1/29/2013 14:20

Sample ID: 13A0823-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Bromoform	ND	1.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Bromomethane	ND	2.0	µg/L	1	L-04, R-05, V-05	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
cis-1,2-Dichloroethylene	6.9	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B307

Sampled: 1/29/2013 14:20

Sample ID: 13A0823-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Methylene Chloride	ND	5.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Naphthalene	ND	2.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Tetrahydrofuran	ND	2.0	µg/L	1	R-05	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Toluene	1.2	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,1,1-Trichloroethane	2.7	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
Vinyl Chloride	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	2/1/13	2/1/13 19:51	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 19:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	97.0	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B307

Sampled: 1/29/2013 14:20

Sample ID: 13A0823-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/5/13 9:59	OP
Barium	0.18	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:19	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:19	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:19	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:19	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/1/13	2/1/13 11:12	SAJ
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:19	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:19	OP

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B350

Sampled: 1/29/2013 11:15

Sample ID: 13A0823-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Bromoform	ND	1.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Bromomethane	ND	2.0	µg/L	1	L-04, R-05, V-05	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,1-Dichloroethane	1.1	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
cis-1,2-Dichloroethylene	8.7	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Field Sample #: B350

Sampled: 1/29/2013 11:15

Sample ID: 13A0823-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Methylene Chloride	ND	5.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Naphthalene	ND	2.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Tetrahydrofuran	ND	2.0	µg/L	1	R-05	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Toluene	1.4	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1	R-05, RL-07	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	RL-07	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,1,1-Trichloroethane	2.5	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
Vinyl Chloride	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	2/1/13	2/1/13 20:22	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 20:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	2/1/13 20:22
Toluene-d8	97.8	70-130	2/1/13 20:22
4-Bromofluorobenzene	102	70-130	2/1/13 20:22

Project Location: Cambridge-Concord

Sample Description:

Work Order: 13A0823

Date Received: 1/31/2013

Sampled: 1/29/2013 11:15

Field Sample #: B350

Sample ID: 13A0823-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/5/13 10:23	OP
Barium	ND	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:24	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:24	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:24	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:24	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/1/13	2/1/13 11:14	SAJ
Selenium	ND	0.050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:24	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	2/2/13	2/4/13 17:24	OP

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0823-01 [B335]	B067110	50.0	50.0	02/02/13
13A0823-02 [B333]	B067110	50.0	50.0	02/02/13
13A0823-03 [B307]	B067110	50.0	50.0	02/02/13
13A0823-04 [B350]	B067110	50.0	50.0	02/02/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0823-01 [B335]	B067037	6.00	6.00	02/01/13
13A0823-02 [B333]	B067037	6.00	6.00	02/01/13
13A0823-03 [B307]	B067037	6.00	6.00	02/01/13
13A0823-04 [B350]	B067037	6.00	6.00	02/01/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0823-01 [B335]	B067033	0.1	5.00	02/01/13
13A0823-02 [B333]	B067033	5	5.00	02/01/13
13A0823-03 [B307]	B067033	5	5.00	02/01/13
13A0823-04 [B350]	B067033	5	5.00	02/01/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0823-01RE1 [B335]	B067161	0.01	5.00	02/01/13

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 B067033 - SW-846 5030B

Blank (B067033-BLK1)

Prepared & Analyzed: 02/01/13

Acetone	ND	10	µg/L							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							L-04, R-05, V-05
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							R-05
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							R-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B067033 - SW-846 5030B										
Blank (B067033-BLK1)										
Prepared & Analyzed: 02/01/13										
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							R-05
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							R-05
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							L-04, V-05
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			
LCS (B067033-BS1)										
Prepared & Analyzed: 02/01/13										
Acetone	96.0	10	µg/L	100		96.0	40-160			R-05 †
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0		100	70-130			
Benzene	11.0	1.0	µg/L	10.0		110	70-130			
Bromobenzene	11.1	1.0	µg/L	10.0		111	70-130			
Bromochloromethane	12.2	1.0	µg/L	10.0		122	70-130			
Bromodichloromethane	10.9	1.0	µg/L	10.0		109	70-130			
Bromoform	10.4	1.0	µg/L	10.0		104	70-130			
Bromomethane	2.42	2.0	µg/L	10.0		24.2 *	40-160			L-04, R-05, V-05 †
2-Butanone (MEK)	112	10	µg/L	100		112	40-160			†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0		104	70-130			
Carbon Disulfide	7.91	5.0	µg/L	10.0		79.1	70-130			
Carbon Tetrachloride	10.8	1.0	µg/L	10.0		108	70-130			
Chlorobenzene	11.6	1.0	µg/L	10.0		116	70-130			
Chlorodibromomethane	9.20	0.50	µg/L	10.0		92.0	70-130			
Chloroethane	8.65	2.0	µg/L	10.0		86.5	70-130			
Chloroform	11.2	2.0	µg/L	10.0		112	70-130			
Chloromethane	6.02	2.0	µg/L	10.0		60.2	40-160			L-14, V-05 †
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	13.4	2.0	µg/L	10.0		134 *	70-130			L-07
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.0		120	70-130			
Dibromomethane	12.2	1.0	µg/L	10.0		122	70-130			
1,2-Dichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,4-Dichlorobenzene	11.5	1.0	µg/L	10.0		115	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 B067033 - SW-846 5030B										
LCS (B067033-BS1)										
Prepared & Analyzed: 02/01/13										
Dichlorodifluoromethane (Freon 12)	6.14	2.0	µg/L	10.0		61.4	40-160			L-14 †
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130			
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,1-Dichloroethylene	9.96	1.0	µg/L	10.0		99.6	70-130			
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichloropropane	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichloropropane	11.7	0.50	µg/L	10.0		117	70-130			
2,2-Dichloropropane	9.74	1.0	µg/L	10.0		97.4	70-130			
1,1-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
cis-1,3-Dichloropropene	8.45	0.40	µg/L	10.0		84.5	70-130			
trans-1,3-Dichloropropene	8.94	0.40	µg/L	10.0		89.4	70-130			
Diethyl Ether	9.45	2.0	µg/L	10.0		94.5	70-130			
Diisopropyl Ether (DIPE)	11.6	0.50	µg/L	10.0		116	70-130			
1,4-Dioxane	120	50	µg/L	100		120	40-160			V-16 †
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Hexachlorobutadiene	13.9	0.50	µg/L	10.0		139 *	70-130			L-07, V-20
2-Hexanone (MBK)	117	10	µg/L	100		117	40-160			†
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0		109	70-130			
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0		115	70-130			
Methyl tert-Butyl Ether (MTBE)	11.9	1.0	µg/L	10.0		119	70-130			
Methylene Chloride	7.45	5.0	µg/L	10.0		74.5	70-130			R-05
4-Methyl-2-pentanone (MIBK)	116	10	µg/L	100		116	40-160			†
Naphthalene	14.7	2.0	µg/L	10.0		147 *	70-130			L-07, R-05, V-06
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Styrene	10.9	1.0	µg/L	10.0		109	70-130			
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1,2,2-Tetrachloroethane	13.0	0.50	µg/L	10.0		130	70-130			V-20
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Tetrahydrofuran	12.7	2.0	µg/L	10.0		127	70-130			R-05
Toluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2,3-Trichlorobenzene	16.4	2.0	µg/L	10.0		164 *	70-130			L-07A, R-05, V-20
1,2,4-Trichlorobenzene	13.4	1.0	µg/L	10.0		134 *	70-130			L-07
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1,2-Trichloroethane	11.9	1.0	µg/L	10.0		119	70-130			
Trichloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
Trichlorofluoromethane (Freon 11)	11.5	2.0	µg/L	10.0		115	70-130			
1,2,3-Trichloropropane	13.5	2.0	µg/L	10.0		135 *	70-130			L-07, V-20
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Vinyl Chloride	6.20	2.0	µg/L	10.0		62.0 *	70-130			L-04, V-05
m+p Xylene	22.5	2.0	µg/L	20.0		112	70-130			
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		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
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Batch B067033 - SW-846 5030B

LCS Dup (B067033-BSD1)

Prepared & Analyzed: 02/01/13

Acetone	76.6	10	µg/L	100		76.6	40-160	22.4 *	20	R-05 †
tert-Amyl Methyl Ether (TAME)	9.58	0.50	µg/L	10.0		95.8	70-130	4.59	20	
Benzene	10.6	1.0	µg/L	10.0		106	70-130	3.98	20	
Bromobenzene	11.3	1.0	µg/L	10.0		113	70-130	1.69	20	
Bromochloromethane	12.1	1.0	µg/L	10.0		121	70-130	1.07	20	
Bromodichloromethane	10.5	1.0	µg/L	10.0		105	70-130	3.37	20	
Bromoform	9.88	1.0	µg/L	10.0		98.8	70-130	5.22	20	
Bromomethane	3.10	2.0	µg/L	10.0		31.0 *	40-160	24.6 *	20	L-04, R-05, V-05 †
2-Butanone (MEK)	93.4	10	µg/L	100		93.4	40-160	18.4	20	†
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.56	20	
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	1.90	20	
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.953	20	
tert-Butyl Ethyl Ether (TBEE)	9.94	0.50	µg/L	10.0		99.4	70-130	4.23	20	
Carbon Disulfide	6.73	5.0	µg/L	10.0		67.3 *	70-130	16.1	20	L-07
Carbon Tetrachloride	10.1	1.0	µg/L	10.0		101	70-130	6.58	20	
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	3.25	20	
Chlorodibromomethane	8.87	0.50	µg/L	10.0		88.7	70-130	3.65	20	
Chloroethane	8.00	2.0	µg/L	10.0		80.0	70-130	7.81	20	
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	3.16	20	
Chloromethane	5.94	2.0	µg/L	10.0		59.4	40-160	1.34	20	L-14, V-05 †
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	0.188	20	
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	0.270	20	
1,2-Dibromo-3-chloropropane (DBCP)	11.0	2.0	µg/L	10.0		110	70-130	19.4	20	
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130	4.33	20	
Dibromomethane	11.5	1.0	µg/L	10.0		115	70-130	5.49	20	
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	4.25	20	
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	1.91	20	
1,4-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.94	20	
Dichlorodifluoromethane (Freon 12)	5.50	2.0	µg/L	10.0		55.0	40-160	11.0	20	L-14 †
1,1-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130	5.75	20	
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	4.38	20	
1,1-Dichloroethylene	8.88	1.0	µg/L	10.0		88.8	70-130	11.5	20	
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	3.50	20	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	6.86	20	
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130	2.87	20	
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130	4.28	20	
2,2-Dichloropropane	9.09	1.0	µg/L	10.0		90.9	70-130	6.90	20	
1,1-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130	3.99	20	
cis-1,3-Dichloropropene	8.33	0.40	µg/L	10.0		83.3	70-130	1.43	20	
trans-1,3-Dichloropropene	8.64	0.40	µg/L	10.0		86.4	70-130	3.41	20	
Diethyl Ether	8.61	2.0	µg/L	10.0		86.1	70-130	9.30	20	
Diisopropyl Ether (DIPE)	11.2	0.50	µg/L	10.0		112	70-130	3.41	20	
1,4-Dioxane	100	50	µg/L	100		100	40-160	17.9	20	V-16 †
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	0.893	20	
Hexachlorobutadiene	13.0	0.50	µg/L	10.0		130	70-130	6.77	20	V-20
2-Hexanone (MBK)	97.7	10	µg/L	100		97.7	40-160	18.2	20	†
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0		109	70-130	0.0917	20	
p-Isopropyltoluene (p-Cymene)	11.3	1.0	µg/L	10.0		113	70-130	1.67	20	
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130	9.79	20	
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130	31.8 *	20	R-05
4-Methyl-2-pentanone (MIBK)	99.5	10	µg/L	100		99.5	40-160	15.6	20	†
Naphthalene	11.5	2.0	µg/L	10.0		115	70-130	24.8 *	20	R-05, V-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
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Batch B067033 - SW-846 5030B

LCS Dup (B067033-BSD1)

Prepared & Analyzed: 02/01/13

n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.40	20	
Styrene	10.9	1.0	µg/L	10.0		109	70-130	0.0920	20	
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112	70-130	1.80	20	
1,1,2,2-Tetrachloroethane	12.1	0.50	µg/L	10.0		121	70-130	7.50	20	V-20
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	3.87	20	
Tetrahydrofuran	10.1	2.0	µg/L	10.0		101	70-130	22.1 *	20	R-05
Toluene	10.5	1.0	µg/L	10.0		105	70-130	2.64	20	
1,2,3-Trichlorobenzene	12.7	2.0	µg/L	10.0		127	70-130	25.2 *	20	R-05, V-20
1,2,4-Trichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	16.2	20	
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	3.47	20	
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130	2.82	20	
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	4.60	20	
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0		105	70-130	9.37	20	
1,2,3-Trichloropropane	12.5	2.0	µg/L	10.0		125	70-130	8.15	20	V-20
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	1.38	20	
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	0.00	20	
Vinyl Chloride	5.97	2.0	µg/L	10.0		59.7 *	70-130	3.78	20	L-04, V-05
m+p Xylene	22.7	2.0	µg/L	20.0		114	70-130	1.06	20	
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130	0.00	20	
Surrogate: 1,2-Dichloroethane-d4	24.0		µg/L	25.0		96.2	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			

Batch B067161 - SW-846 5030B

Blank (B067161-BLK1)

Prepared & Analyzed: 02/04/13

Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	2.0	µg/L							
Bromoform	ND	5.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	5.0	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	5.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	1.0	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							

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 B067161 - SW-846 5030B										
Blank (B067161-BLK1)										
Prepared & Analyzed: 02/04/13										
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	5.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	2.0	µg/L							V-05
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							V-05
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							L-04, V-05
1,2,4-Trichlorobenzene	ND	5.0	µg/L							L-04, V-05
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.7		µg/L	25.0		107	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.3		µg/L	25.0		93.1	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 B067161 - SW-846 5030B										
LCS (B067161-BS1)										
Prepared & Analyzed: 02/04/13										
Acetone	113	10	µg/L	100		113	40-160			†
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108	70-130			
Benzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromobenzene	9.70	1.0	µg/L	10.0		97.0	70-130			
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130			
Bromodichloromethane	11.0	2.0	µg/L	10.0		110	70-130			
Bromoform	8.83	5.0	µg/L	10.0		88.3	70-130			
Bromomethane	8.72	2.0	µg/L	10.0		87.2	40-160			V-20 †
2-Butanone (MEK)	105	10	µg/L	100		105	40-160			†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
sec-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
tert-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.0		116	70-130			
Carbon Disulfide	11.3	5.0	µg/L	10.0		113	70-130			
Carbon Tetrachloride	12.3	5.0	µg/L	10.0		123	70-130			
Chlorobenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
Chlorodibromomethane	9.95	5.0	µg/L	10.0		99.5	70-130			
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130			
Chloroform	11.8	2.0	µg/L	10.0		118	70-130			
Chloromethane	6.09	5.0	µg/L	10.0		60.9	40-160			L-14 †
2-Chlorotoluene	9.85	1.0	µg/L	10.0		98.5	70-130			
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.62	2.0	µg/L	10.0		86.2	70-130			
1,2-Dibromoethane (EDB)	9.18	1.0	µg/L	10.0		91.8	70-130			
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,4-Dichlorobenzene	9.45	1.0	µg/L	10.0		94.5	70-130			
Dichlorodifluoromethane (Freon 12)	6.40	2.0	µg/L	10.0		64.0	40-160			V-20, L-14 †
1,1-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichloroethane	11.8	1.0	µg/L	10.0		118	70-130			
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichloropropane	9.96	0.50	µg/L	10.0		99.6	70-130			
2,2-Dichloropropane	9.94	5.0	µg/L	10.0		99.4	70-130			
1,1-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
cis-1,3-Dichloropropene	8.50	0.40	µg/L	10.0		85.0	70-130			
trans-1,3-Dichloropropene	8.52	2.0	µg/L	10.0		85.2	70-130			V-05
Diethyl Ether	11.1	2.0	µg/L	10.0		111	70-130			
Diisopropyl Ether (DIPE)	12.4	0.50	µg/L	10.0		124	70-130			
1,4-Dioxane	126	50	µg/L	100		126	40-160			V-16 †
Ethylbenzene	9.43	1.0	µg/L	10.0		94.3	70-130			
Hexachlorobutadiene	10.7	0.50	µg/L	10.0		107	70-130			
2-Hexanone (MBK)	99.2	10	µg/L	100		99.2	40-160			†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130			
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111	70-130			
Methyl tert-Butyl Ether (MTBE)	11.5	1.0	µg/L	10.0		115	70-130			
Methylene Chloride	11.8	5.0	µg/L	10.0		118	70-130			
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	40-160			†
Naphthalene	7.26	5.0	µg/L	10.0		72.6	70-130			V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B067161 - SW-846 5030B

LCS (B067161-BS1)

Prepared & Analyzed: 02/04/13

n-Propylbenzene	9.99	1.0	µg/L	10.0		99.9	70-130			
Styrene	8.83	1.0	µg/L	10.0		88.3	70-130			V-05
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	8.72	0.50	µg/L	10.0		87.2	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Tetrahydrofuran	9.78	2.0	µg/L	10.0		97.8	70-130			
Toluene	10.2	1.0	µg/L	10.0		102	70-130			
1,2,3-Trichlorobenzene	6.25	5.0	µg/L	10.0		62.5 *	70-130			L-04, V-05
1,2,4-Trichlorobenzene	6.18	5.0	µg/L	10.0		61.8 *	70-130			L-04, V-05
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.0		116	70-130			
1,1,2-Trichloroethane	9.71	1.0	µg/L	10.0		97.1	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	12.9	2.0	µg/L	10.0		129	70-130			V-20
1,2,3-Trichloropropane	9.34	2.0	µg/L	10.0		93.4	70-130			
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3,5-Trimethylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130			
Vinyl Chloride	9.29	2.0	µg/L	10.0		92.9	70-130			
m+p Xylene	19.7	2.0	µg/L	20.0		98.6	70-130			
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	29.2		µg/L	25.0		117	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.3	70-130			

LCS Dup (B067161-BS1)

Prepared & Analyzed: 02/04/13

Acetone	108	10	µg/L	100		108	40-160	3.87	20	†
tert-Amyl Methyl Ether (TAME)	10.5	0.50	µg/L	10.0		105	70-130	2.82	20	
Benzene	9.65	1.0	µg/L	10.0		96.5	70-130	4.26	20	
Bromobenzene	8.95	1.0	µg/L	10.0		89.5	70-130	8.04	20	
Bromochloromethane	10.8	1.0	µg/L	10.0		108	70-130	5.42	20	
Bromodichloromethane	10.5	2.0	µg/L	10.0		105	70-130	4.84	20	
Bromoform	8.60	5.0	µg/L	10.0		86.0	70-130	2.64	20	
Bromomethane	9.26	2.0	µg/L	10.0		92.6	40-160	6.01	20	V-20 †
2-Butanone (MEK)	109	10	µg/L	100		109	40-160	4.31	20	†
n-Butylbenzene	9.60	1.0	µg/L	10.0		96.0	70-130	5.77	20	
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	9.24	20	
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	8.80	20	
tert-Butyl Ethyl Ether (TBEE)	11.1	0.50	µg/L	10.0		111	70-130	4.40	20	
Carbon Disulfide	10.2	5.0	µg/L	10.0		102	70-130	9.93	20	
Carbon Tetrachloride	11.5	5.0	µg/L	10.0		115	70-130	7.14	20	
Chlorobenzene	9.27	1.0	µg/L	10.0		92.7	70-130	2.87	20	
Chlorodibromomethane	9.95	5.0	µg/L	10.0		99.5	70-130	0.00	20	
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130	4.94	20	
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	7.90	20	
Chloromethane	5.46	5.0	µg/L	10.0		54.6	40-160	10.9	20	L-14 †
2-Chlorotoluene	9.68	1.0	µg/L	10.0		96.8	70-130	1.74	20	
4-Chlorotoluene	9.84	1.0	µg/L	10.0		98.4	70-130	3.59	20	
1,2-Dibromo-3-chloropropane (DBCP)	8.57	2.0	µg/L	10.0		85.7	70-130	0.582	20	
1,2-Dibromoethane (EDB)	9.50	1.0	µg/L	10.0		95.0	70-130	3.43	20	
Dibromomethane	10.1	1.0	µg/L	10.0		101	70-130	9.86	20	
1,2-Dichlorobenzene	9.93	1.0	µg/L	10.0		99.3	70-130	5.29	20	
1,3-Dichlorobenzene	9.80	1.0	µg/L	10.0		98.0	70-130	7.75	20	
1,4-Dichlorobenzene	8.94	1.0	µg/L	10.0		89.4	70-130	5.55	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 B067161 - SW-846 5030B										
LCS Dup (B067161-BSD1)										
Prepared & Analyzed: 02/04/13										
Dichlorodifluoromethane (Freon 12)	5.93	2.0	µg/L	10.0		59.3	40-160	7.62	20	L-14, V-20 †
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	7.37	20	
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130	8.03	20	
1,1-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	6.38	20	
cis-1,2-Dichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130	6.95	20	
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	9.06	20	
1,2-Dichloropropane	9.67	1.0	µg/L	10.0		96.7	70-130	4.94	20	
1,3-Dichloropropane	9.89	0.50	µg/L	10.0		98.9	70-130	0.705	20	
2,2-Dichloropropane	9.46	5.0	µg/L	10.0		94.6	70-130	4.95	20	
1,1-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	8.95	20	
cis-1,3-Dichloropropene	8.12	0.40	µg/L	10.0		81.2	70-130	4.57	20	
trans-1,3-Dichloropropene	8.55	2.0	µg/L	10.0		85.5	70-130	0.351	20	V-05
Diethyl Ether	10.6	2.0	µg/L	10.0		106	70-130	4.51	20	
Diisopropyl Ether (DIPE)	11.8	0.50	µg/L	10.0		118	70-130	5.29	20	
1,4-Dioxane	126	50	µg/L	100		126	40-160	0.103	20	V-16 †
Ethylbenzene	8.95	1.0	µg/L	10.0		89.5	70-130	5.22	20	
Hexachlorobutadiene	9.68	0.50	µg/L	10.0		96.8	70-130	9.82	20	
2-Hexanone (MBK)	104	10	µg/L	100		104	40-160	5.02	20	†
Isopropylbenzene (Cumene)	9.49	1.0	µg/L	10.0		94.9	70-130	7.02	20	
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.0		103	70-130	7.55	20	
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.0		110	70-130	4.61	20	
Methylene Chloride	10.7	5.0	µg/L	10.0		107	70-130	10.0	20	
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108	40-160	3.38	20	†
Naphthalene	7.39	5.0	µg/L	10.0		73.9	70-130	1.77	20	V-05
n-Propylbenzene	9.43	1.0	µg/L	10.0		94.3	70-130	5.77	20	
Styrene	8.27	1.0	µg/L	10.0		82.7	70-130	6.55	20	V-05
1,1,1,2-Tetrachloroethane	9.83	1.0	µg/L	10.0		98.3	70-130	5.35	20	
1,1,2,2-Tetrachloroethane	8.85	0.50	µg/L	10.0		88.5	70-130	1.48	20	
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101	70-130	0.888	20	
Tetrahydrofuran	10.1	2.0	µg/L	10.0		101	70-130	3.61	20	
Toluene	9.74	1.0	µg/L	10.0		97.4	70-130	4.52	20	
1,2,3-Trichlorobenzene	6.33	5.0	µg/L	10.0		63.3	* 70-130	1.27	20	L-04, V-05
1,2,4-Trichlorobenzene	6.08	5.0	µg/L	10.0		60.8	* 70-130	1.63	20	L-04, V-05
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	9.31	20	
1,1,2-Trichloroethane	9.85	1.0	µg/L	10.0		98.5	70-130	1.43	20	
Trichloroethylene	9.71	1.0	µg/L	10.0		97.1	70-130	4.73	20	
Trichlorofluoromethane (Freon 11)	12.3	2.0	µg/L	10.0		123	70-130	4.75	20	V-20
1,2,3-Trichloropropane	9.33	2.0	µg/L	10.0		93.3	70-130	0.107	20	
1,2,4-Trimethylbenzene	9.74	1.0	µg/L	10.0		97.4	70-130	8.55	20	
1,3,5-Trimethylbenzene	8.99	1.0	µg/L	10.0		89.9	70-130	5.41	20	
Vinyl Chloride	8.64	2.0	µg/L	10.0		86.4	70-130	7.25	20	
m+p Xylene	18.9	2.0	µg/L	20.0		94.6	70-130	4.09	20	
o-Xylene	9.62	1.0	µg/L	10.0		96.2	70-130	7.89	20	
Surrogate: 1,2-Dichloroethane-d4	27.5		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.1	70-130			

QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B067037 - SW-846 7470A Prep										
Blank (B067037-BLK1)				Prepared & Analyzed: 02/01/13						
Mercury	ND	0.00010	mg/L							
LCS (B067037-BS1)				Prepared & Analyzed: 02/01/13						
Mercury	0.00190	0.00010	mg/L	0.00200		94.9	80-120			
LCS Dup (B067037-BSD1)				Prepared & Analyzed: 02/01/13						
Mercury	0.00191	0.00010	mg/L	0.00200		95.7	80-120	0.902	20	
Duplicate (B067037-DUP1)				Source: 13A0823-01		Prepared & Analyzed: 02/01/13				
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B067037-MS1)				Source: 13A0823-01		Prepared & Analyzed: 02/01/13				
Mercury	0.00192	0.00010	mg/L	0.00200	ND	95.9	75-125			
Batch B067110 - SW-846 3005A Dissolved										
Blank (B067110-BLK1)				Prepared: 02/02/13 Analyzed: 02/05/13						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
LCS (B067110-BS1)				Prepared: 02/02/13 Analyzed: 02/05/13						
Arsenic	0.537	0.010	mg/L	0.500		107	80-120			
Barium	0.513	0.050	mg/L	0.500		103	80-120			
Cadmium	0.533	0.0040	mg/L	0.500		107	80-120			
Chromium	0.491	0.010	mg/L	0.500		98.2	80-120			
Lead	0.532	0.010	mg/L	0.500		106	80-120			
Selenium	0.504	0.050	mg/L	0.500		101	80-120			
Silver	0.399	0.0050	mg/L	0.500		79.9 *	80-120			L-07
LCS Dup (B067110-BSD1)				Prepared: 02/02/13 Analyzed: 02/05/13						
Arsenic	0.534	0.010	mg/L	0.500		107	80-120	0.436	20	
Barium	0.522	0.050	mg/L	0.500		104	80-120	1.81	20	
Cadmium	0.540	0.0040	mg/L	0.500		108	80-120	1.34	20	
Chromium	0.500	0.010	mg/L	0.500		100	80-120	1.91	20	
Lead	0.547	0.010	mg/L	0.500		109	80-120	2.82	20	
Selenium	0.511	0.050	mg/L	0.500		102	80-120	1.38	20	
Silver	0.432	0.0050	mg/L	0.500		86.4	80-120	7.82	20	

QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B067110 - SW-846 3005A Dissolved

Duplicate (B067110-DUP1)

Source: 13A0823-01

Prepared: 02/02/13 Analyzed: 02/05/13

Arsenic	ND	0.010	mg/L		ND			NC	20	
Barium	0.101	0.050	mg/L		0.101			0.206	20	
Cadmium	ND	0.0040	mg/L		ND			NC	20	
Chromium	ND	0.010	mg/L		ND			NC	20	
Lead	ND	0.010	mg/L		ND			NC	20	
Selenium	ND	0.050	mg/L		ND			NC	20	
Silver	ND	0.0050	mg/L		ND			NC	20	

Matrix Spike (B067110-MS1)

Source: 13A0823-01

Prepared: 02/02/13 Analyzed: 02/05/13

Arsenic	0.545	0.010	mg/L	0.500	ND	109	75-125			
Barium	0.605	0.050	mg/L	0.500	0.101	101	75-125			
Cadmium	0.513	0.0040	mg/L	0.500	ND	103	75-125			
Chromium	0.513	0.010	mg/L	0.500	0.00376	102	75-125			
Lead	0.487	0.010	mg/L	0.500	ND	97.3	75-125			
Selenium	0.535	0.050	mg/L	0.500	ND	107	75-125			
Silver	0.292	0.0050	mg/L	0.500	ND	58.3 *	75-125			MS-07

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
No results have been blank subtracted unless specified in the case narrative section.
- L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - L-07A Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
 - L-14 Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
 - MS-07 Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - RL-05 Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
 - RL-07 Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
 - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
 - V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Arsenic	CT,NH,NY,ME,NC,VA,NJ
Barium	MA,NY,CT,NH,NC,ME,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromofom	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



CON-TEST
ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name: Kleinfelder

Address: 215 First St., Suite 320
Cambridge MA 02142

Attention: Martha Zirbel

Project Location: Cambridge - Concord

Sampled By: Nathan Hand

Telephone: 617-498-4678

Project #

Client PO#

DATA DELIVERY (check all that apply)

FAX EMAIL WEBSITE

Fax #

Email: mzirbel@kleinfelder.com

Format:

PDF EXCEL OGIS
 OTHER

Collection "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
 Yes No

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Collection		Matrix Code	Date Code	Matrix Code	Date Code
				Composite	Grab				
01	B335 B338	1/29/13	1000	X	GW	U	V	V	V
02	B349	1/29/13	1145	X	GW	U	V	V	V
03	B307	1/29/13	1420	X	GW	U	V	V	V
04	B350	1/29/13	1115	X	GW	U	V	V	V

Comments: *8 metals preserved in field re Nathan Hand - 2/1/13 JMS*

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) *atad* Date/Time: 1/29/13

Received by: (signature) *Fridge* Date/Time: 1/29/13

Relinquished by: (signature) *atad* Date/Time: 1/29/13

Received by: (signature) *atad* Date/Time: 1/29/13

Turnaround 7-Day 10-Day Other _____

Require lab approval 124-Hr 148-Hr 172-Hr 14-Day

Detection Limit Requirements: Massachusetts: RCS-1

Is your project MCP or RCP?

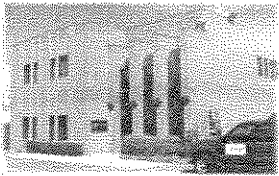
MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID # _____

NEIAC & 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

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



Sample Receipt Checklist

CLIENT NAME: Kleinfeider RECEIVED BY: WJ DATE: 1-31-13

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

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.2

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

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

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

Containers received at Con-Test

	# of containers				# of containers
1 Liter Amber				8 oz amber/clear jar	
500 mL Amber				4 oz amber/clear jar	
250 mL Amber (8oz amber)				2 oz amber/clear jar	
1 Liter Plastic				Air Cassette	
500 mL Plastic				Hg/Hopcalite Tube	
250 mL plastic				Plastic Bag / Ziploc	
40 mL Vial - type listed below				PM 2.5 / PM 10	
Colisure / bacteria bottle				PUF Cartridge	
Dissolved Oxygen bottle				SOC Kit	
Encore				TO-17 Tubes	
Flashpoint bottle				Non-ConTest Container	
Perchlorate Kit				Other glass jar	
Other				Other	

Laboratory Comments: _____

40 mL vials: # HCl 8 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Doc# 277
 Rev. 3 May 2012

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 13A0823
Project Location: Cambridge-Concord	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
13A0823-01 thru 13A0823-04

Matrices: **Water**

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM III B (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	8082 PCB CAM V A ()	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: <u>Laboratory Director</u>
Printed Name: <u>Michael A. Erickson</u>	Date: <u>02/11/13</u>

March 15, 2013

Beck Straley
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Concord Ave., Cambridge, MA
Client Job Number:
Project Number: 2012256.01-A
Laboratory Work Order Number: 13C0233

Enclosed are results of analyses for samples received by the laboratory on March 7, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Beck Straley

REPORT DATE: 3/15/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2012256.01-A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13C0233

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

PROJECT LOCATION: Concord Ave., Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-313	13C0233-01	Ground Water		SW-846 8260C	
B-305	13C0233-02	Ground Water		MADEP-EPH-04-1.1 MADEP-VPH-04-1.1 SW-846 8260C	
B-337	13C0233-03	Ground Water		SW-846 8270D SW-846 8260C	

CASE NARRATIVE SUMMARY

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

For method 8270, only a select list of PAH compounds were analyzed and reported in order to achieve lower detection limits than possible with the EPH analysis.

SW-846 8260C

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:**Vinyl Chloride**B068912-BS1, B068912-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:**Chloroethane, Diethyl Ether**B068912-BS1

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:**2,2-Dichloropropane**B068912-BS1

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:**Chloromethane, Dichlorodifluoromethane (Freon 12)**B068912-BS1, B068912-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:**2,2-Dichloropropane, Bromomethane, Chloromethane, Methyl tert-Butyl Ether (MTBE), tert-Amyl Methyl Ether (TAME), tert-Butyl Ethyl Ether (TBEE)**13C0233-01[B-313], 13C0233-02[B-305], 13C0233-03[B-337], B068912-BLK1, B068912-BS1, B068912-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Bromomethane, Carbon Disulfide, Methylene Chloride**13C0233-01[B-313], 13C0233-02[B-305], 13C0233-03[B-337]

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

Analyte & Samples(s) Qualified:**2,2-Dichloropropane, Dichlorodifluoromethane (Freon 12)**13C0233-01[B-313], 13C0233-02[B-305], 13C0233-03[B-337], B068912-BLK1, B068912-BS1, B068912-BSD1

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

Analyte & Samples(s) Qualified:**1,4-Dioxane**13C0233-01[B-313], 13C0233-02[B-305], 13C0233-03[B-337], B068912-BLK1, B068912-BS1, B068912-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:

Bromomethane, Chloroethane, Diethyl Ether, Vinyl Chloride
B068912-BS1, B068912-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 at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

SW-846 8260C

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

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

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



Michael A. Erickson
Laboratory Director

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-313

Sampled: 3/6/2013 10:04

Sample ID: 13C0233-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Bromomethane	ND	5.0	µg/L	1	R-05, RL-07	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Chloromethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,1-Dichloroethane	1.2	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	R-05, V-05	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-313

Sampled: 3/6/2013 10:04

Sample ID: 13C0233-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/8/13	3/8/13 23:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	85.6	70-130	3/8/13 23:19
Toluene-d8	101	70-130	3/8/13 23:19
4-Bromofluorobenzene	97.0	70-130	3/8/13 23:19

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-305

Sampled: 3/6/2013 11:30

Sample ID: 13C0233-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
tert-Amyl Methyl Ether (TAME)	2.8	0.50	µg/L	1	R-05	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Benzene	24	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Bromomethane	ND	5.0	µg/L	1	R-05, RL-07	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1	R-05	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Chloromethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	R-05, V-05	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Ethylbenzene	8.5	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH



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

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-305

Sampled: 3/6/2013 11:30

Sample ID: 13C0233-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Methyl tert-Butyl Ether (MTBE)	6.4	1.0	µg/L	1	R-05	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/8/13	3/9/13 0:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Naphthalene	5.9	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Toluene	14	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,2,4-Trimethylbenzene	38	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
1,3,5-Trimethylbenzene	20	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
m+p Xylene	120	2.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH
o-Xylene	71	1.0	µg/L	1		SW-846 8260C	3/8/13	3/9/13 0:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	85.3	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	97.5	70-130	

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-305

Sampled: 3/6/2013 11:30

Sample ID: 13C0233-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.050	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Benzo(a)pyrene	ND	0.10	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Benzo(b)fluoranthene	ND	0.050	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Benzo(g,h,i)perylene	ND	0.50	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Benzo(k)fluoranthene	ND	0.20	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Chrysene	ND	0.20	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Dibenz(a,h)anthracene	ND	0.20	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Indeno(1,2,3-cd)pyrene	ND	0.20	µg/L	1		SW-846 8270D	3/9/13	3/12/13 14:56	MJC
Surrogates		% Recovery		Recovery Limits	Flag				
o-Terphenyl (OTP)		69.9		30-130				3/12/13 14:56	

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-305

Sampled: 3/6/2013 11:30

Sample ID: 13C0233-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Unadjusted C11-C22 Aromatics	160	100	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
C11-C22 Aromatics	160	100	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Acenaphthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Fluorene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Naphthalene	4.2	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Phenanthrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS
Pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	3/13/13	3/14/13 15:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag
Chlorooctadecane (COD)	48.6	40-140	
o-Terphenyl (OTP)	63.0	40-140	
2-Bromonaphthalene	73.9	40-140	
2-Fluorobiphenyl	82.5	40-140	

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-305

Sampled: 3/6/2013 11:30

Sample ID: 13C0233-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	120	100	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
C5-C8 Aliphatics	110	100	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
Unadjusted C9-C12 Aliphatics	240	100	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
C9-C10 Aromatics	140	100	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
Benzene	4.4	1.0	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
Methyl tert-Butyl Ether (MTBE)	2.6	1.0	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
Toluene	2.6	1.0	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
m+p Xylene	18	2.0	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
o-Xylene	14	1.0	µg/L	1		MADEP-VPH-04-1.1	3/11/13	3/11/13 22:46	EEH
Surrogates		% Recovery		Recovery Limits	Flag				
2,5-Dibromotoluene (FID)		106		70-130				3/11/13 22:46	
2,5-Dibromotoluene (PID)		99.9		70-130				3/11/13 22:46	

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-337

Sampled: 3/6/2013 15:25

Sample ID: 13C0233-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Bromomethane	ND	5.0	µg/L	1	R-05, RL-07	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Chloromethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	R-05, V-05	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH

Project Location: Concord Ave., Cambridge, MA

Sample Description:

Work Order: 13C0233

Date Received: 3/7/2013

Field Sample #: B-337

Sampled: 3/6/2013 15:25

Sample ID: 13C0233-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1	R-05	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/8/13	3/8/13 23:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/13	3/8/13 23:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	84.5	70-130	3/8/13 23:45
Toluene-d8	101	70-130	3/8/13 23:45
4-Bromofluorobenzene	99.8	70-130	3/8/13 23:45

Sample Extraction Data

Prep Method: SW-846 3510C-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13C0233-02RE1 [B-305]	B068987	830	1.66	03/13/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13C0233-02 [B-305]	B068847	5	5.00	03/11/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13C0233-01 [B-313]	B068912	5	5.00	03/08/13
13C0233-02 [B-305]	B068912	5	5.00	03/08/13
13C0233-03 [B-337]	B068912	5	5.00	03/08/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13C0233-02 [B-305]	B068861	1000	2.00	03/09/13

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 B068912 - SW-846 5035

Blank (B068912-BLK1)

Prepared & Analyzed: 03/08/13

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

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 B068912 - SW-846 5035

Blank (B068912-BLK1)

Prepared & Analyzed: 03/08/13

n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	21.4		µg/L	25.0		85.6	70-130			
Surrogate: Toluene-d8	26.0		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

LCS (B068912-BS1)

Prepared & Analyzed: 03/08/13

Acetone	111	10	µg/L	100		111	40-160			†
tert-Amyl Methyl Ether (TAME)	7.43	0.50	µg/L	10.0		74.3	70-130		R-05	
Benzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromochloromethane	11.1	1.0	µg/L	10.0		111	70-130			
Bromodichloromethane	9.66	1.0	µg/L	10.0		96.6	70-130			
Bromoform	9.66	1.0	µg/L	10.0		96.6	70-130			
Bromomethane	7.42	5.0	µg/L	10.0		74.2	40-160		R-05, V-20	†
2-Butanone (MEK)	100	10	µg/L	100		100	40-160			†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
sec-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
tert-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
tert-Butyl Ethyl Ether (TBEE)	7.82	0.50	µg/L	10.0		78.2	70-130		R-05	
Carbon Disulfide	8.94	5.0	µg/L	10.0		89.4	70-130			
Carbon Tetrachloride	8.87	1.0	µg/L	10.0		88.7	70-130			
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
Chlorodibromomethane	9.31	0.50	µg/L	10.0		93.1	70-130			
Chloroethane	13.2	2.0	µg/L	10.0		132 *	70-130		L-07, V-20	
Chloroform	10.6	2.0	µg/L	10.0		106	70-130			
Chloromethane	6.13	2.0	µg/L	10.0		61.3	40-160		L-14, R-05	†
2-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130			
4-Chlorotoluene	11.5	1.0	µg/L	10.0		115	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.48	2.0	µg/L	10.0		84.8	70-130			
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130			
Dibromomethane	9.71	1.0	µg/L	10.0		97.1	70-130			
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
1,3-Dichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	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 B068912 - SW-846 5035										
LCS (B068912-BS1)										
Prepared & Analyzed: 03/08/13										
Dichlorodifluoromethane (Freon 12)	4.81	2.0	µg/L	10.0		48.1	40-160			L-14, V-05 †
1,1-Dichloroethane	9.74	1.0	µg/L	10.0		97.4	70-130			
1,2-Dichloroethane	8.92	1.0	µg/L	10.0		89.2	70-130			
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
cis-1,2-Dichloroethylene	9.63	1.0	µg/L	10.0		96.3	70-130			
trans-1,2-Dichloroethylene	9.80	1.0	µg/L	10.0		98.0	70-130			
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
2,2-Dichloropropane	6.38	1.0	µg/L	10.0		63.8 *	70-130			L-07A, R-05, V-05
1,1-Dichloropropene	9.88	0.50	µg/L	10.0		98.8	70-130			
cis-1,3-Dichloropropene	9.40	0.40	µg/L	10.0		94.0	70-130			
trans-1,3-Dichloropropene	8.92	0.40	µg/L	10.0		89.2	70-130			
Diethyl Ether	13.2	2.0	µg/L	10.0		132 *	70-130			L-07, V-20
Diisopropyl Ether (DIPE)	12.2	0.50	µg/L	10.0		122	70-130			
1,4-Dioxane	103	50	µg/L	100		103	40-160			V-16 †
Ethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Hexachlorobutadiene	9.43	0.50	µg/L	10.0		94.3	70-130			
2-Hexanone (MBK)	110	10	µg/L	100		110	40-160			†
Isopropylbenzene (Cumene)	12.2	1.0	µg/L	10.0		122	70-130			
p-Isopropyltoluene (p-Cymene)	11.6	1.0	µg/L	10.0		116	70-130			
Methyl tert-Butyl Ether (MTBE)	7.73	1.0	µg/L	10.0		77.3	70-130			R-05
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130			
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113	40-160			†
Naphthalene	8.75	2.0	µg/L	10.0		87.5	70-130			
n-Propylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
Styrene	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	10.5	2.0	µg/L	10.0		105	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	8.64	2.0	µg/L	10.0		86.4	70-130			
1,2,4-Trichlorobenzene	9.49	1.0	µg/L	10.0		94.9	70-130			
1,1,1-Trichloroethane	8.63	1.0	µg/L	10.0		86.3	70-130			
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
Trichloroethylene	9.67	1.0	µg/L	10.0		96.7	70-130			
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.0		114	70-130			
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130			
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Vinyl Chloride	13.5	2.0	µg/L	10.0		135 *	70-130			L-02, V-20
m+p Xylene	22.7	2.0	µg/L	20.0		114	70-130			
o-Xylene	11.6	1.0	µg/L	10.0		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.5		µg/L	25.0		89.8	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.6	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 B068912 - SW-846 5035										
LCS Dup (B068912-BSD1)										
Prepared & Analyzed: 03/08/13										
Acetone	103	10	µg/L	100		103	40-160	7.65	20	†
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102	70-130	31.9 *	20	R-05
Benzene	9.40	1.0	µg/L	10.0		94.0	70-130	7.28	20	
Bromobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.34	20	
Bromochloromethane	10.7	1.0	µg/L	10.0		107	70-130	4.22	20	
Bromodichloromethane	9.24	1.0	µg/L	10.0		92.4	70-130	4.44	20	
Bromoform	9.95	1.0	µg/L	10.0		99.5	70-130	2.96	20	
Bromomethane	9.56	5.0	µg/L	10.0		95.6	40-160	25.2 *	20	R-05, V-20 †
2-Butanone (MEK)	91.8	10	µg/L	100		91.8	40-160	9.02	20	†
n-Butylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	5.80	20	
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	5.49	20	
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	5.33	20	
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130	34.2 *	20	R-05
Carbon Disulfide	8.35	5.0	µg/L	10.0		83.5	70-130	6.82	20	
Carbon Tetrachloride	8.56	1.0	µg/L	10.0		85.6	70-130	3.56	20	
Chlorobenzene	11.8	1.0	µg/L	10.0		118	70-130	3.87	20	
Chlorodibromomethane	9.06	0.50	µg/L	10.0		90.6	70-130	2.72	20	
Chloroethane	12.4	2.0	µg/L	10.0		124	70-130	6.00	20	V-20
Chloroform	10.3	2.0	µg/L	10.0		103	70-130	2.48	20	
Chloromethane	9.62	2.0	µg/L	10.0		96.2	40-160	44.3 *	20	R-05 †
2-Chlorotoluene	11.3	1.0	µg/L	10.0		113	70-130	1.33	20	
4-Chlorotoluene	11.3	1.0	µg/L	10.0		113	70-130	1.67	20	
1,2-Dibromo-3-chloropropane (DBCP)	8.15	2.0	µg/L	10.0		81.5	70-130	3.97	20	
1,2-Dibromoethane (EDB)	9.88	0.50	µg/L	10.0		98.8	70-130	1.41	20	
Dibromomethane	9.52	1.0	µg/L	10.0		95.2	70-130	1.98	20	
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.460	20	
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	4.44	20	
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.23	20	
Dichlorodifluoromethane (Freon 12)	4.69	2.0	µg/L	10.0		46.9	40-160	2.53	20	L-14, V-05 †
1,1-Dichloroethane	9.77	1.0	µg/L	10.0		97.7	70-130	0.308	20	
1,2-Dichloroethane	8.74	1.0	µg/L	10.0		87.4	70-130	2.04	20	
1,1-Dichloroethylene	9.42	1.0	µg/L	10.0		94.2	70-130	9.98	20	
cis-1,2-Dichloroethylene	9.08	1.0	µg/L	10.0		90.8	70-130	5.88	20	
trans-1,2-Dichloroethylene	9.55	1.0	µg/L	10.0		95.5	70-130	2.58	20	
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130	2.43	20	
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130	0.195	20	
2,2-Dichloropropane	7.91	1.0	µg/L	10.0		79.1	70-130	21.4 *	20	R-05, V-05
1,1-Dichloropropene	9.48	0.50	µg/L	10.0		94.8	70-130	4.13	20	
cis-1,3-Dichloropropene	10.1	0.40	µg/L	10.0		101	70-130	7.18	20	
trans-1,3-Dichloropropene	10.4	0.40	µg/L	10.0		104	70-130	15.4	20	
Diethyl Ether	12.8	2.0	µg/L	10.0		128	70-130	2.39	20	V-20
Diisopropyl Ether (DIPE)	12.1	0.50	µg/L	10.0		121	70-130	0.822	20	
1,4-Dioxane	110	50	µg/L	100		110	40-160	6.32	20	V-16 †
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.06	20	
Hexachlorobutadiene	8.62	0.50	µg/L	10.0		86.2	70-130	8.98	20	
2-Hexanone (MBK)	105	10	µg/L	100		105	40-160	4.27	20	†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118	70-130	3.24	20	
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.0		109	70-130	5.86	20	
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.0		103	70-130	28.4 *	20	R-05
Methylene Chloride	9.87	5.0	µg/L	10.0		98.7	70-130	1.41	20	
4-Methyl-2-pentanone (MIBK)	110	10	µg/L	100		110	40-160	2.60	20	†
Naphthalene	8.26	2.0	µg/L	10.0		82.6	70-130	5.76	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 B068912 - SW-846 5035										
LCS Dup (B068912-BSD1)										
					Prepared & Analyzed: 03/08/13					
n-Propylbenzene	11.3	1.0	µg/L	10.0		113	70-130	2.97	20	
Styrene	11.4	1.0	µg/L	10.0		114	70-130	1.67	20	
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130	3.28	20	
1,1,2,2-Tetrachloroethane	11.0	0.50	µg/L	10.0		110	70-130	2.77	20	
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101	70-130	4.83	20	
Tetrahydrofuran	10.1	2.0	µg/L	10.0		101	70-130	3.78	20	
Toluene	10.3	1.0	µg/L	10.0		103	70-130	3.07	20	
1,2,3-Trichlorobenzene	8.31	2.0	µg/L	10.0		83.1	70-130	3.89	20	
1,2,4-Trichlorobenzene	9.13	1.0	µg/L	10.0		91.3	70-130	3.87	20	
1,1,1-Trichloroethane	8.81	1.0	µg/L	10.0		88.1	70-130	2.06	20	
1,1,2-Trichloroethane	9.97	1.0	µg/L	10.0		99.7	70-130	0.600	20	
Trichloroethylene	9.09	1.0	µg/L	10.0		90.9	70-130	6.18	20	
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130	8.80	20	
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130	0.192	20	
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	5.89	20	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	3.16	20	
Vinyl Chloride	13.9	2.0	µg/L	10.0		139 *	70-130	2.78	20	L-02, V-20
m+p Xylene	22.4	2.0	µg/L	20.0		112	70-130	1.37	20	
o-Xylene	12.0	1.0	µg/L	10.0		120	70-130	3.48	20	
Surrogate: 1,2-Dichloroethane-d4	22.4		µg/L	25.0		89.8	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		102	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 B068861 - SW-846 3510C										
Blank (B068861-BLK1)										
Prepared: 03/09/13 Analyzed: 03/12/13										
Benzo(a)anthracene	ND	0.050	µg/L							
Benzo(a)pyrene	ND	0.10	µg/L							
Benzo(b)fluoranthene	ND	0.050	µg/L							
Benzo(g,h,i)perylene	ND	0.50	µg/L							
Benzo(k)fluoranthene	ND	0.20	µg/L							
Chrysene	ND	0.20	µg/L							
Dibenz(a,h)anthracene	ND	0.20	µg/L							
Indeno(1,2,3-cd)pyrene	ND	0.20	µg/L							
Surrogate: o-Terphenyl (OTP)	99.4		µg/L	100		99.4	30-130			
LCS (B068861-BS1)										
Prepared: 03/09/13 Analyzed: 03/12/13										
Benzo(a)anthracene	69.6	1.2	µg/L	100		69.6	40-140			
Benzo(a)pyrene	71.2	2.5	µg/L	100		71.2	40-140			
Benzo(b)fluoranthene	69.0	1.2	µg/L	100		69.0	40-140			
Benzo(g,h,i)perylene	73.8	12	µg/L	100		73.8	40-140			
Benzo(k)fluoranthene	66.2	5.0	µg/L	100		66.2	40-140			
Chrysene	66.6	5.0	µg/L	100		66.6	40-140			
Dibenz(a,h)anthracene	73.2	5.0	µg/L	100		73.2	40-140			
Indeno(1,2,3-cd)pyrene	76.0	5.0	µg/L	100		76.0	40-140			
Surrogate: o-Terphenyl (OTP)	74.2		µg/L	100		74.2	30-130			
LCS Dup (B068861-BSD1)										
Prepared: 03/09/13 Analyzed: 03/12/13										
Benzo(a)anthracene	77.2	1.2	µg/L	100		77.2	40-140	10.3	20	
Benzo(a)pyrene	79.1	2.5	µg/L	100		79.1	40-140	10.6	20	
Benzo(b)fluoranthene	76.1	1.2	µg/L	100		76.1	40-140	9.86	20	
Benzo(g,h,i)perylene	82.0	12	µg/L	100		82.0	40-140	10.5	20	
Benzo(k)fluoranthene	74.0	5.0	µg/L	100		74.0	40-140	11.1	20	
Chrysene	74.5	5.0	µg/L	100		74.5	40-140	11.2	20	
Dibenz(a,h)anthracene	82.4	5.0	µg/L	100		82.4	40-140	11.8	20	
Indeno(1,2,3-cd)pyrene	85.0	5.0	µg/L	100		85.0	40-140	11.1	20	
Surrogate: o-Terphenyl (OTP)	79.4		µg/L	100		79.4	30-130			

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 B068987 - SW-846 3510C

Blank (B068987-BLK1)

Prepared: 03/13/13 Analyzed: 03/14/13

C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	56.6		µg/L	99.8		56.7	40-140			
Surrogate: o-Terphenyl (OTP)	71.4		µg/L	100		71.4	40-140			
Surrogate: 2-Bromonaphthalene	79.5		µg/L	100		79.5	40-140			
Surrogate: 2-Fluorobiphenyl	85.5		µg/L	100		85.5	40-140			

LCS (B068987-BS1)

Prepared: 03/13/13 Analyzed: 03/14/13

Acenaphthene	63.3	2.0	µg/L	100		63.3	40-140			
Acenaphthylene	62.0	2.0	µg/L	100		62.0	40-140			
Anthracene	69.6	2.0	µg/L	100		69.6	40-140			
Benzo(a)anthracene	71.0	2.0	µg/L	100		71.0	40-140			
Benzo(a)pyrene	67.9	2.0	µg/L	100		67.9	40-140			
Benzo(b)fluoranthene	70.7	2.0	µg/L	100		70.7	40-140			
Benzo(g,h,i)perylene	71.5	2.0	µg/L	100		71.5	40-140			
Benzo(k)fluoranthene	69.0	2.0	µg/L	100		69.0	40-140			
Chrysene	66.4	2.0	µg/L	100		66.4	40-140			
Dibenz(a,h)anthracene	72.0	2.0	µg/L	100		72.0	40-140			
Fluoranthene	70.0	2.0	µg/L	100		70.0	40-140			
Fluorene	65.7	2.0	µg/L	100		65.7	40-140			
Indeno(1,2,3-cd)pyrene	73.6	2.0	µg/L	100		73.6	40-140			
2-Methylnaphthalene	60.7	2.0	µg/L	100		60.7	40-140			
Naphthalene	54.1	2.0	µg/L	100		54.1	40-140			
Phenanthrene	69.5	2.0	µg/L	100		69.5	40-140			
Pyrene	68.2	2.0	µg/L	100		68.2	40-140			
n-Decane	42.9	2.0	µg/L	100		42.9	40-140			
n-Docosane	67.6	2.0	µg/L	100		67.6	40-140			
n-Dodecane	51.8	2.0	µg/L	100		51.8	40-140			
n-Eicosane	69.3	2.0	µg/L	100		69.3	40-140			
n-Hexacosane	64.6	2.0	µg/L	100		64.6	40-140			
n-Hexadecane	65.2	2.0	µg/L	100		65.2	40-140			
n-Hexatriacontane	56.5	2.0	µg/L	100		56.5	40-140			
n-Nonadecane	65.6	2.0	µg/L	100		65.6	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
Batch B068987 - SW-846 3510C										
LCS (B068987-BS1)										
					Prepared: 03/13/13 Analyzed: 03/14/13					
n-Nonane	34.3	2.0	µg/L	100		34.3	30-140			
n-Octacosane	63.4	2.0	µg/L	100		63.4	40-140			
n-Octadecane	69.8	2.0	µg/L	100		69.8	40-140			
n-Tetracosane	65.7	2.0	µg/L	100		65.7	40-140			
n-Tetradecane	59.7	2.0	µg/L	100		59.7	40-140			
n-Triacontane	64.8	2.0	µg/L	100		64.8	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	56.4		µg/L	99.8		56.5	40-140			
Surrogate: o-Terphenyl (OTP)	67.9		µg/L	100		67.9	40-140			
Surrogate: 2-Bromonaphthalene	73.3		µg/L	100		73.3	40-140			
Surrogate: 2-Fluorobiphenyl	81.0		µg/L	100		81.0	40-140			
LCS Dup (B068987-BSD1)										
					Prepared: 03/13/13 Analyzed: 03/14/13					
Acenaphthene	79.3	2.0	µg/L	100		79.3	40-140	22.5	25	
Acenaphthylene	77.5	2.0	µg/L	100		77.5	40-140	22.2	25	
Anthracene	87.3	2.0	µg/L	100		87.3	40-140	22.5	25	
Benzo(a)anthracene	88.4	2.0	µg/L	100		88.4	40-140	21.9	25	
Benzo(a)pyrene	84.6	2.0	µg/L	100		84.6	40-140	21.9	25	
Benzo(b)fluoranthene	88.0	2.0	µg/L	100		88.0	40-140	21.7	25	
Benzo(g,h,i)perylene	89.2	2.0	µg/L	100		89.2	40-140	22.0	25	
Benzo(k)fluoranthene	86.0	2.0	µg/L	100		86.0	40-140	21.9	25	
Chrysene	82.6	2.0	µg/L	100		82.6	40-140	21.8	25	
Dibenz(a,h)anthracene	89.7	2.0	µg/L	100		89.7	40-140	22.0	25	
Fluoranthene	87.5	2.0	µg/L	100		87.5	40-140	22.2	25	
Fluorene	82.6	2.0	µg/L	100		82.6	40-140	22.7	25	
Indeno(1,2,3-cd)pyrene	91.7	2.0	µg/L	100		91.7	40-140	21.9	25	
2-Methylnaphthalene	75.4	2.0	µg/L	100		75.4	40-140	21.7	25	
Naphthalene	66.8	2.0	µg/L	100		66.8	40-140	21.0	25	
Phenanthrene	87.0	2.0	µg/L	100		87.0	40-140	22.4	25	
Pyrene	85.2	2.0	µg/L	100		85.2	40-140	22.1	25	
n-Decane	47.8	2.0	µg/L	100		47.8	40-140	10.9	25	
n-Docosane	72.9	2.0	µg/L	100		72.9	40-140	7.49	25	
n-Dodecane	57.1	2.0	µg/L	100		57.1	40-140	9.70	25	
n-Eicosane	74.6	2.0	µg/L	100		74.6	40-140	7.42	25	
n-Hexacosane	70.1	2.0	µg/L	100		70.1	40-140	8.09	25	
n-Hexadecane	73.6	2.0	µg/L	100		73.6	40-140	12.1	25	
n-Hexatriacontane	60.3	2.0	µg/L	100		60.3	40-140	6.57	25	
n-Nonadecane	71.8	2.0	µg/L	100		71.8	40-140	8.93	25	
n-Nonane	38.0	2.0	µg/L	100		38.0	30-140	10.0	25	
n-Octacosane	68.8	2.0	µg/L	100		68.8	40-140	8.18	25	
n-Octadecane	75.5	2.0	µg/L	100		75.5	40-140	7.89	25	
n-Tetracosane	71.4	2.0	µg/L	100		71.4	40-140	8.20	25	
n-Tetradecane	66.2	2.0	µg/L	100		66.2	40-140	10.2	25	
n-Triacontane	70.2	2.0	µg/L	100		70.2	40-140	8.01	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	61.1		µg/L	99.8		61.2	40-140			
Surrogate: o-Terphenyl (OTP)	83.6		µg/L	100		83.6	40-140			
Surrogate: 2-Bromonaphthalene	83.2		µg/L	100		83.2	40-140			
Surrogate: 2-Fluorobiphenyl	92.8		µg/L	100		92.8	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 B068847 - MA VPH										
Blank (B068847-BLK1)										
Prepared & Analyzed: 03/11/13										
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	33.9		µg/L	40.0		84.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	34.3		µg/L	40.0		85.6	70-130			
LCS (B068847-BS1)										
Prepared & Analyzed: 03/11/13										
Benzene	103	1.0	µg/L	100		103	70-130			
Butylcyclohexane	90.4	1.0	µg/L	100		90.4	70-130			
Decane	99.6	1.0	µg/L	100		99.6	70-130			
Ethylbenzene	97.9	1.0	µg/L	100		97.9	70-130			
Methyl tert-Butyl Ether (MTBE)	96.3	1.0	µg/L	100		96.3	70-130			
2-Methylpentane	102	1.0	µg/L	100		102	70-130			
Naphthalene	94.4	5.0	µg/L	100		94.4	70-130			
Nonane	96.2	1.0	µg/L	100		96.2	30-130			
Pentane	107	1.0	µg/L	100		107	70-130			
Toluene	101	1.0	µg/L	100		101	70-130			
1,2,4-Trimethylbenzene	98.8	1.0	µg/L	100		98.8	70-130			
2,2,4-Trimethylpentane	96.9	1.0	µg/L	100		96.9	70-130			
m+p Xylene	200	2.0	µg/L	200		99.9	70-130			
o-Xylene	101	1.0	µg/L	100		101	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	39.9		µg/L	40.0		99.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	38.9		µg/L	40.0		97.4	70-130			
LCS Dup (B068847-BSD1)										
Prepared & Analyzed: 03/11/13										
Benzene	102	1.0	µg/L	100		102	70-130	1.00	25	
Butylcyclohexane	90.9	1.0	µg/L	100		90.9	70-130	0.594	25	
Decane	101	1.0	µg/L	100		101	70-130	1.15	25	
Ethylbenzene	96.7	1.0	µg/L	100		96.7	70-130	1.21	25	
Methyl tert-Butyl Ether (MTBE)	95.8	1.0	µg/L	100		95.8	70-130	0.529	25	
2-Methylpentane	102	1.0	µg/L	100		102	70-130	0.842	25	
Naphthalene	87.9	5.0	µg/L	100		87.9	70-130	7.12	25	
Nonane	98.1	1.0	µg/L	100		98.1	30-130	1.99	25	
Pentane	104	1.0	µg/L	100		104	70-130	2.73	25	
Toluene	99.9	1.0	µg/L	100		99.9	70-130	1.10	25	
1,2,4-Trimethylbenzene	96.8	1.0	µg/L	100		96.8	70-130	2.13	25	
2,2,4-Trimethylpentane	94.1	1.0	µg/L	100		94.1	70-130	2.90	25	
m+p Xylene	197	2.0	µg/L	200		98.5	70-130	1.40	25	
o-Xylene	98.9	1.0	µg/L	100		98.9	70-130	1.72	25	
Surrogate: 2,5-Dibromotoluene (FID)	35.3		µg/L	40.0		88.3	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	36.0		µg/L	40.0		89.9	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Water	
C9-C18 Aliphatics	CT,NC,WA,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,NH-P
Acenaphthene	CT,NC,WA,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,NH-P
Anthracene	CT,NC,WA,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,NH-P
Chrysene	CT,NC,WA,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,NH-P
Fluoranthene	CT,NC,WA,ME,NH-P
Fluorene	CT,NC,WA,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME
Naphthalene	CT,NC,WA,ME,NH-P
Phenanthrene	CT,NC,WA,ME,NH-P
Pyrene	CT,NC,WA,ME,NH-P
MADEP-VPH-04-1.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

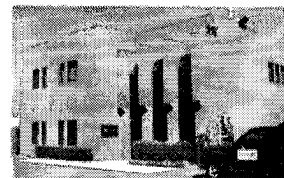
Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

<i>SW-846 8270D in Water</i>	
Acenaphthene	ME,NC,NY,CT,NH,VA
Acenaphthylene	ME,NC,NY,CT,NH,VA
Anthracene	ME,NC,NY,CT,NH,VA
Benzo(a)anthracene	ME,NC,NY,CT,NH,VA
Benzo(a)pyrene	ME,NC,NY,CT,NH,VA
Benzo(b)fluoranthene	ME,NC,NY,CT,NH,VA
Benzo(g,h,i)perylene	ME,NC,NY,CT,NH,VA
Benzo(k)fluoranthene	ME,NC,NY,CT,NH,VA
Chrysene	ME,NC,NY,CT,NH,VA
Dibenz(a,h)anthracene	ME,NC,NY,CT,NH,VA
Fluoranthene	ME,NC,NY,CT,NH,VA
Fluorene	ME,NC,NY,CT,NH,VA
Indeno(1,2,3-cd)pyrene	ME,NC,NY,CT,NH,VA
2-Methylnaphthalene	ME,NC
Naphthalene	ME,NC,NY,CT,NH,VA
Phenanthrene	ME,NC,NY,CT,NH,VA
Pyrene	ME,NC,NY,CT,NH,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

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Sample Receipt Checklist

CLIENT NAME: Klein Felder RECEIVED BY: WP DATE: 3-7-18

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

2) Does the chain agree with the samples? Yes No
 If not, explain:

3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.8

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

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

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

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	12	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 12 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory Project #: 13C0233
 Project Location: Concord Ave., Cambridge, MA RTN: _____

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
13C0233-02

Matrices: Water

CAM Protocol (check all that below)

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

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

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

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

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

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

Signature:  Position: Laboratory Director
 Printed Name: Michael A. Erickson Date: 03/15/13

March 21, 2013

Martha Zirbel
Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142

Project Location: Cambridge-Concord Ave.
Client Job Number:
Project Number: 2012256.01A
Laboratory Work Order Number: 13C0436

Enclosed are results of analyses for samples received by the laboratory on March 14, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Kleinfelder/SEA - Cambridge, MA
215 First Street, Suite 320
Cambridge, MA 02142
ATTN: Martha Zirbel

REPORT DATE: 3/21/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2012256.01A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13C0436

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

PROJECT LOCATION: Cambridge-Concord Ave.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B-329	13C0436-01	Ground Water		SW-846 8260C	
B-331	13C0436-02	Ground Water		SW-846 8260C	
B-333	13C0436-03	Ground Water		SW-846 8260C	
B-349	13C0436-04	Ground Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

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:

Methylene Chloride

B069144-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:

Dichlorodifluoromethane (Freon 12)

B069144-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

Bromomethane, Carbon Disulfide, Methylene Chloride

13C0436-01[B-329], 13C0436-02[B-331], 13C0436-03[B-333], 13C0436-04[B-349]

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

Analyte & Samples(s) Qualified:

2-Hexanone (MBK), 4-Methyl-2-pentanone (MIBK), Acetone, Chloromethane, Methylene Chloride

13C0436-01[B-329], 13C0436-02[B-331], 13C0436-03[B-333], 13C0436-04[B-349], B069144-BLK1, B069144-BS1, B069144-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

13C0436-01[B-329], 13C0436-02[B-331], 13C0436-03[B-333], 13C0436-04[B-349], B069144-BLK1, B069144-BS1, B069144-BSD1

SW-846 8260C

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

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

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

A handwritten signature in black ink, appearing to read "Daren J. Damboragian", is written over a light gray rectangular background.

Daren J. Damboragian
Laboratory Manager

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-329

Sampled: 3/13/2013 10:30

Sample ID: 13C0436-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
sec-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Carbon Tetrachloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-329

Sampled: 3/13/2013 10:30

Sample ID: 13C0436-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 15:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.7	70-130	
Toluene-d8	99.4	70-130	
4-Bromofluorobenzene	102	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-331

Sampled: 3/13/2013 13:00

Sample ID: 13C0436-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
sec-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Carbon Tetrachloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,1-Dichloroethane	2.3	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-331

Sampled: 3/13/2013 13:00

Sample ID: 13C0436-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	93.3	70-130	
Toluene-d8	97.8	70-130	
4-Bromofluorobenzene	107	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-333

Sampled: 3/13/2013 15:40

Sample ID: 13C0436-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
sec-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Carbon Tetrachloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
cis-1,2-Dichloroethylene	1.4	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH



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

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-333

Sampled: 3/13/2013 15:40

Sample ID: 13C0436-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Trichloroethylene	3.7	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	93.0	70-130	
Toluene-d8	95.9	70-130	
4-Bromofluorobenzene	105	70-130	

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-349

Sampled: 3/13/2013 17:30

Sample ID: 13C0436-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
sec-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Carbon Tetrachloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH

Project Location: Cambridge-Concord Ave.

Sample Description:

Work Order: 13C0436

Date Received: 3/14/2013

Field Sample #: B-349

Sampled: 3/13/2013 17:30

Sample ID: 13C0436-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
2-Hexanone (MBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1	V-05	SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/15/13	3/19/13 16:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.1	70-130	
Toluene-d8	96.6	70-130	
4-Bromofluorobenzene	104	70-130	

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13C0436-01 [B-329]	B069144	5	5.00	03/15/13
13C0436-02 [B-331]	B069144	5	5.00	03/15/13
13C0436-03 [B-333]	B069144	5	5.00	03/15/13
13C0436-04 [B-349]	B069144	5	5.00	03/15/13

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 B069144 - SW-846 5030B

Blank (B069144-BLK1)

Prepared: 03/15/13 Analyzed: 03/19/13

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

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 B069144 - SW-846 5030B

Blank (B069144-BLK1)

Prepared: 03/15/13 Analyzed: 03/19/13

n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	22.9		µg/L	25.0		91.5	70-130			
Surrogate: Toluene-d8	23.7		µg/L	25.0		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	26.0		µg/L	25.0		104	70-130			

LCS (B069144-BS1)

Prepared: 03/15/13 Analyzed: 03/19/13

Acetone	74.4	10	µg/L	100		74.4	40-160			V-05 †
tert-Amyl Methyl Ether (TAME)	10.5	0.50	µg/L	10.0		105	70-130			
Benzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromobenzene	11.2	1.0	µg/L	10.0		112	70-130			
Bromochloromethane	8.79	1.0	µg/L	10.0		87.9	70-130			
Bromodichloromethane	10.1	1.0	µg/L	10.0		101	70-130			
Bromoform	9.88	1.0	µg/L	10.0		98.8	70-130			
Bromomethane	8.16	5.0	µg/L	10.0		81.6	40-160			†
2-Butanone (MEK)	70.3	10	µg/L	100		70.3	40-160			†
n-Butylbenzene	10.3	2.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	11.6	2.0	µg/L	10.0		116	70-130			
tert-Butylbenzene	12.0	1.0	µg/L	10.0		120	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0		104	70-130			
Carbon Disulfide	8.82	5.0	µg/L	10.0		88.2	70-130			
Carbon Tetrachloride	10.6	2.0	µg/L	10.0		106	70-130			
Chlorobenzene	12.7	1.0	µg/L	10.0		127	70-130			
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103	70-130			
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130			
Chloroform	11.2	2.0	µg/L	10.0		112	70-130			
Chloromethane	7.26	2.0	µg/L	10.0		72.6	40-160			V-05 †
2-Chlorotoluene	12.8	1.0	µg/L	10.0		128	70-130			
4-Chlorotoluene	12.7	1.0	µg/L	10.0		127	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.49	2.0	µg/L	10.0		74.9	70-130			
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130			
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130			
1,3-Dichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130			
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	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 B069144 - SW-846 5030B										
LCS (B069144-BS1)										
					Prepared: 03/15/13 Analyzed: 03/19/13					
Dichlorodifluoromethane (Freon 12)	7.40	2.0	µg/L	10.0		74.0	40-160			†
1,1-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloroethane	9.97	1.0	µg/L	10.0		99.7	70-130			
1,1-Dichloroethylene	9.74	1.0	µg/L	10.0		97.4	70-130			
cis-1,2-Dichloroethylene	9.82	1.0	µg/L	10.0		98.2	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	9.43	1.0	µg/L	10.0		94.3	70-130			
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
2,2-Dichloropropane	11.2	1.0	µg/L	10.0		112	70-130			
1,1-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130			
cis-1,3-Dichloropropene	10.0	0.40	µg/L	10.0		100	70-130			
trans-1,3-Dichloropropene	10.3	0.40	µg/L	10.0		103	70-130			
Diethyl Ether	9.08	2.0	µg/L	10.0		90.8	70-130			
Diisopropyl Ether (DIPE)	9.54	0.50	µg/L	10.0		95.4	70-130			
1,4-Dioxane	89.8	50	µg/L	100		89.8	40-160			V-16 †
Ethylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
Hexachlorobutadiene	11.0	0.50	µg/L	10.0		110	70-130			
2-Hexanone (MBK)	71.7	10	µg/L	100		71.7	40-160			V-05 †
Isopropylbenzene (Cumene)	12.8	1.0	µg/L	10.0		128	70-130			
p-Isopropyltoluene (p-Cymene)	12.1	1.0	µg/L	10.0		121	70-130			
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130			
Methylene Chloride	7.17	5.0	µg/L	10.0		71.7	70-130			V-05
4-Methyl-2-pentanone (MIBK)	73.5	10	µg/L	100		73.5	40-160			V-05 †
Naphthalene	9.55	2.0	µg/L	10.0		95.5	70-130			
n-Propylbenzene	12.6	1.0	µg/L	10.0		126	70-130			
Styrene	12.1	1.0	µg/L	10.0		121	70-130			
1,1,1,2-Tetrachloroethane	11.1	1.0	µg/L	10.0		111	70-130			
1,1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130			
Tetrachloroethylene	12.3	1.0	µg/L	10.0		123	70-130			
Tetrahydrofuran	7.66	2.0	µg/L	10.0		76.6	70-130			
Toluene	11.4	1.0	µg/L	10.0		114	70-130			
1,2,3-Trichlorobenzene	9.89	2.0	µg/L	10.0		98.9	70-130			
1,2,4-Trichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
Trichloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Trichlorofluoromethane (Freon 11)	11.9	2.0	µg/L	10.0		119	70-130			
1,2,3-Trichloropropane	9.60	2.0	µg/L	10.0		96.0	70-130			
1,2,4-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
1,3,5-Trimethylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
Vinyl Chloride	10.4	2.0	µg/L	10.0		104	70-130			
m+p Xylene	24.8	2.0	µg/L	20.0		124	70-130			
o-Xylene	12.7	1.0	µg/L	10.0		127	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.4		µg/L	25.0		93.4	70-130			
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	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 B069144 - SW-846 5030B										
LCS Dup (B069144-BSD1)										
					Prepared: 03/15/13 Analyzed: 03/19/13					
Acetone	78.2	10	µg/L	100		78.2	40-160	4.99	20	V-05 †
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107	70-130	2.17	20	
Benzene	10.3	1.0	µg/L	10.0		103	70-130	5.10	20	
Bromobenzene	11.2	1.0	µg/L	10.0		112	70-130	0.357	20	
Bromochloromethane	8.67	1.0	µg/L	10.0		86.7	70-130	1.37	20	
Bromodichloromethane	9.97	1.0	µg/L	10.0		99.7	70-130	1.30	20	
Bromoform	10.2	1.0	µg/L	10.0		102	70-130	2.89	20	
Bromomethane	9.82	5.0	µg/L	10.0		98.2	40-160	18.5	20	†
2-Butanone (MEK)	73.6	10	µg/L	100		73.6	40-160	4.52	20	†
n-Butylbenzene	9.90	2.0	µg/L	10.0		99.0	70-130	4.35	20	
sec-Butylbenzene	11.0	2.0	µg/L	10.0		110	70-130	5.76	20	
tert-Butylbenzene	11.8	1.0	µg/L	10.0		118	70-130	1.52	20	
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130	1.64	20	
Carbon Disulfide	7.65	5.0	µg/L	10.0		76.5	70-130	14.2	20	
Carbon Tetrachloride	10.1	2.0	µg/L	10.0		101	70-130	4.93	20	
Chlorobenzene	12.6	1.0	µg/L	10.0		126	70-130	0.554	20	
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130	2.88	20	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	3.48	20	
Chloroform	10.7	2.0	µg/L	10.0		107	70-130	4.76	20	
Chloromethane	7.27	2.0	µg/L	10.0		72.7	40-160	0.138	20	V-05 †
2-Chlorotoluene	12.4	1.0	µg/L	10.0		124	70-130	3.17	20	
4-Chlorotoluene	12.4	1.0	µg/L	10.0		124	70-130	2.63	20	
1,2-Dibromo-3-chloropropane (DBCP)	7.91	2.0	µg/L	10.0		79.1	70-130	5.45	20	
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113	70-130	2.70	20	
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	1.52	20	
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	2.51	20	
1,3-Dichlorobenzene	11.8	1.0	µg/L	10.0		118	70-130	3.57	20	
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	0.640	20	
Dichlorodifluoromethane (Freon 12)	6.89	2.0	µg/L	10.0		68.9	40-160	7.14	20	L-14 †
1,1-Dichloroethane	9.90	1.0	µg/L	10.0		99.0	70-130	4.83	20	
1,2-Dichloroethane	9.97	1.0	µg/L	10.0		99.7	70-130	0.00	20	
1,1-Dichloroethylene	9.02	1.0	µg/L	10.0		90.2	70-130	7.68	20	
cis-1,2-Dichloroethylene	9.27	1.0	µg/L	10.0		92.7	70-130	5.76	20	
trans-1,2-Dichloroethylene	9.95	1.0	µg/L	10.0		99.5	70-130	6.33	20	
1,2-Dichloropropane	9.65	1.0	µg/L	10.0		96.5	70-130	2.31	20	
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	1.87	20	
2,2-Dichloropropane	10.7	1.0	µg/L	10.0		107	70-130	4.67	20	
1,1-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130	6.22	20	
cis-1,3-Dichloropropene	9.95	0.40	µg/L	10.0		99.5	70-130	0.501	20	
trans-1,3-Dichloropropene	10.6	0.40	µg/L	10.0		106	70-130	2.67	20	
Diethyl Ether	8.66	2.0	µg/L	10.0		86.6	70-130	4.74	20	
Diisopropyl Ether (DIPE)	9.30	0.50	µg/L	10.0		93.0	70-130	2.55	20	
1,4-Dioxane	90.2	50	µg/L	100		90.2	40-160	0.444	20	V-16 †
Ethylbenzene	11.8	1.0	µg/L	10.0		118	70-130	2.14	20	
Hexachlorobutadiene	10.5	0.50	µg/L	10.0		105	70-130	4.66	20	
2-Hexanone (MBK)	78.8	10	µg/L	100		78.8	40-160	9.34	20	V-05 †
Isopropylbenzene (Cumene)	12.6	1.0	µg/L	10.0		126	70-130	1.10	20	
p-Isopropyltoluene (p-Cymene)	11.2	1.0	µg/L	10.0		112	70-130	8.05	20	
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.0		112	70-130	3.28	20	
Methylene Chloride	6.63	5.0	µg/L	10.0		66.3 *	70-130	7.83	20	L-07, V-05
4-Methyl-2-pentanone (MIBK)	79.8	10	µg/L	100		79.8	40-160	8.19	20	V-05 †
Naphthalene	10.4	2.0	µg/L	10.0		104	70-130	8.90	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 B069144 - SW-846 5030B										
LCS Dup (B069144-BSD1)										
					Prepared: 03/15/13 Analyzed: 03/19/13					
n-Propylbenzene	12.4	1.0	µg/L	10.0		124	70-130	1.84	20	
Styrene	11.6	1.0	µg/L	10.0		116	70-130	3.80	20	
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130	0.908	20	
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130	3.95	20	
Tetrachloroethylene	12.1	1.0	µg/L	10.0		121	70-130	1.97	20	
Tetrahydrofuran	8.33	2.0	µg/L	10.0		83.3	70-130	8.38	20	
Toluene	11.0	1.0	µg/L	10.0		110	70-130	3.83	20	
1,2,3-Trichlorobenzene	10.5	2.0	µg/L	10.0		105	70-130	5.60	20	
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	0.375	20	
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130	3.58	20	
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	3.56	20	
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	3.83	20	
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110	70-130	7.86	20	
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103	70-130	6.65	20	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	5.77	20	
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130	1.47	20	
Vinyl Chloride	9.73	2.0	µg/L	10.0		97.3	70-130	6.66	20	
m+p Xylene	24.0	2.0	µg/L	20.0		120	70-130	3.40	20	
o-Xylene	12.2	1.0	µg/L	10.0		122	70-130	4.01	20	
Surrogate: 1,2-Dichloroethane-d4	23.2		µg/L	25.0		92.9	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	26.5		µg/L	25.0		106	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



CON-TEST
ANALYTICAL LABORATORY

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www.contestlabs.com

CHAIN OF CUSTODY RECORD
13C0436
Rev 04.05.12

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Klenfelder

Address: 215 First Street, Suite 320

City: Cambridge, MA 02142

Attention: Bekh Straley / Martha Zabel

Project Location: Cambridge - Concord Ave

Sampled By: Bekh Straley

Project Proposal Provided? (for billing purposes)
 Yes No

Telephone: 617-498 4705

Project #: 2012256014

Client PO#: 0928

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Fax # 617-498-4705

Email: beckh.klenfelder@con

Format: PDF EXCEL OGIS
 OTHER: Excel EDD

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix Date	Frame Date	3	H	ANALYSIS REQUESTED
		Beginning Date/Time	Ending Date/Time							
-01	B-329	3/13/13	1030		X	GW	U	X		
-02	B-331	3/13/13	1300		X	GW	U	X		
-03	B-333	3/13/13	1540		X	GW	U	X		
-04	B-349	3/13/13	1730		X	GW	U	X		

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

of Containers
** Preservation
*** Container Code

Dissolved Meta
 Field Filtered
 Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial

S=summary can
T=tedlar bag
O=Other

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

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

Relinquished by: (signature) [Signature] Date/Time: 3/14/13 1300

Received by: (signature) [Signature] Date/Time: 3-14-13

Relinquished by: (signature) [Signature] Date/Time: 3-14-13

Received by: (signature) [Signature] Date/Time: 3-14-13

Relinquished by: (signature) [Signature] Date/Time: 3-14-13

Turnaround 7-Day 10-Day Other 5 day

24-Hr 48-Hr 72-Hr 14-Day

Require lab approval

Detection Limit Requirements
Massachusetts: GW-1

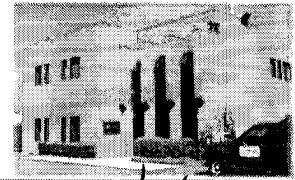
Connecticut: Other: _____

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

Accredited
NELAC & AIHA-LAP, LLC
WB/EDBE 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.

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



Sample Receipt Checklist

CLIENT NAME: Reinfeiner RECEIVED BY: VA DATE: 3/14

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

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

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.5

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

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

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

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

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

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

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below	12		PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments: _____

40 mL vials: # HCl <u>17</u> # Methanol _____ # Bisulfate _____ # DI Water _____ # Thiosulfate _____ Unpreserved _____	Time and Date Frozen: _____
--	---------------------------------------

Doc# 277

Rev. 3 May 2012

